

National Testing Agency

Question Paper Name : 87 Computer Science and Applications 02nd Jan 2026
Shift 1 Set A
Subject Name : 87 Computer Science and Applications
Creation Date : 2026-01-02 15:55:38
Duration : 180
Total Marks : 300
Display Marks: Yes

Computer Science and Applications and General Paper

Group Number : 1
Group Id : 61198715
Group Maximum Duration : 0
Group Minimum Duration : 180
Show Attended Group? : No
Edit Attended Group? : No
Break time : 0
Group Marks : 300

General Paper

Section Id : 61198729
Section Number : 1
Section type : Online
Mandatory or Optional : Mandatory
Number of Questions : 42
Number of Questions to be attempted : 42
Section Marks : 100
Maximum Instruction Time : 0
Sub-Section Number : 1
Sub-Section Id : 61198785
Question Shuffling Allowed : No
Is Section Default? : No

Question Id : 6119872157 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (1 to 5)

Question Label : Comprehension

Study carefully the table given below and answer the question asked here under.

In this table, number (in thousands) of five types of products (i.e. A, B, C, D, E) manufactured against their respective year of manufacturing are given.

Year	A (in thousands)	B (in thousands)	C (in thousands)	D (in thousands)	E (in thousands)
2021	29	45	26	15	32
2022	32	52	58	26	35
2023	28	54	92	24	39
2024	26	58	86	27	34
2025	23	63	82	28	34

Sub questions

Question Number : 1 Question Id : 6119872158 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

During which of the following years, manufacturing of product A was approximately equal to the average production of that year?

1. 2021
2. 2022
3. 2023
4. 2024

Options :

- 6119878401. 1
- 6119878402. 2
- 6119878403. 3
- 6119878404. 4

Question Number : 2 Question Id : 6119872159 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Manufacturing of product C in the year 2023 was approximately what percent of the total production of product B in years 2022 and 2024 together?

1. 84 %
2. 80 %
3. 90 %
4. 79 %

Options :

- 6119878405. 1
- 6119878406. 2
- 6119878407. 3
- 6119878408. 4

Question Number : 3 Question Id : 6119872160 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

If we consider the combined production of product C and E in each year, then what is the difference of their combined production in the years 2023 and 2025?

1. 10000
2. 15000
3. 5000
4. 20000

Options :

- 6119878409. 1
- 6119878410. 2
- 6119878411. 3
- 6119878412. 4

Question Number : 4 Question Id : 6119872161 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

During which of the following years, product B has the lowest percentage of manufacturing with reference to combined manufacturing of that year?

1. 2021
2. 2022
3. 2023
4. 2024

Options :

- 6119878413. 1
- 6119878414. 2
- 6119878415. 3
- 6119878416. 4

Question Number : 5 Question Id : 6119872162 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Manufacturing of product D in the year 2021 is approximately less by what percent of its production in the year 2024?

1. 50 %
2. 60 %
3. 66 %
4. 44 %

Options :

- 6119878417. 1
- 6119878418. 2
- 6119878419. 3
- 6119878420. 4

Question Id : 6119872157 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (1 to 5)

Question Label : Comprehension

नीचे दी गई तालिका का ध्यानपूर्वक अध्ययन करें और उसके नीचे पूछे गए प्रश्न का उत्तर दें।

इस तालिका में, विनिर्मित पाँच प्रकार के उत्पादों (अर्थात् A, B, C, D, E) की संख्या (हजार में) उनके विनिर्माण के संबंधित वर्ष के सामने दी गई है।

वर्ष	A (हजार में)	B (हजार में)	C (हजार में)	D (हजार में)	E (हजार में)
2021	29	45	26	15	32
2022	32	52	58	26	35
2023	28	54	92	24	39
2024	26	58	86	27	34
2025	23	63	82	28	34

Sub questions

Question Number : 1 Question Id : 6119872158 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित में से किस वर्ष उत्पाद A का विनिर्माण, उस वर्ष के औसत उत्पादन के लगभग बराबर था?

1. 2021
2. 2022
3. 2023
4. 2024

Options :

6119878401. 1
6119878402. 2
6119878403. 3
6119878404. 4

Question Number : 2 Question Id : 6119872159 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

वर्ष 2023 में उत्पाद C का विनिर्माण, वर्ष 2022 और 2024 में उत्पाद B के कुल उत्पादन का लगभग कितने प्रतिशत था?

1. 84 %
2. 80 %
3. 90 %
4. 79 %

Options :

6119878405. 1
6119878406. 2
6119878407. 3
6119878408. 4

Question Number : 3 Question Id : 6119872160 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

यदि हम प्रत्येक वर्ष उत्पाद C और E के संयुक्त उत्पादन पर विचार करें, तो वर्ष 2023 और 2025 में उनके संयुक्त उत्पादन के बीच कितना अंतर है?

1. 10000
2. 15000
3. 5000
4. 20000

Options :

6119878409. 1
6119878410. 2
6119878411. 3
6119878412. 4

Question Number : 4 Question Id : 6119872161 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित में से किस वर्ष के संयुक्त विनिर्माण के संदर्भ में उस वर्ष उत्पाद B के विनिर्माण का प्रतिशत सबसे कम था?

1. 2021
2. 2022
3. 2023
4. 2024

Options :

6119878413. 1
6119878414. 2
6119878415. 3
6119878416. 4

Question Number : 5 Question Id : 6119872162 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

वर्ष 2021 में उत्पाद D का विनिर्माण, वर्ष 2024 में उसके उत्पादन से लगभग कितने प्रतिशत कम है?

1. 50 %
2. 60 %
3. 66 %
4. 44 %

Options :

6119878417. 1
6119878418. 2
6119878419. 3
6119878420. 4

Sub-Section Number :

2

Sub-Section Id :

61198786

Question Shuffling Allowed :

Yes

Is Section Default? :

No

Question Number : 6 Question Id : 6119872163 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Choose the correct statements among the following:

- A. Diagnosis of the learners is done in Inter-Active stage of teaching.
- B. Feedback and Testing of the learners are done in Post-Active stage of teaching.
- C. Fixing up goals and content are done in Post-Active stage of teaching.
- D. Selection of appropriate testing devices is done in Post-Active stage of teaching.
- E. Decision about strategies of teaching is done in Post-Active stage of teaching.

Choose the **correct** answer from the options given below:

- 1. C, D and E Only
- 2. A, C and D Only
- 3. A, B and D Only
- 4. A, B and E Only

Options :

6119878421. 1

6119878422. 2

6119878423. 3

6119878424. 4

Question Number : 6 Question Id : 6119872163 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित में से सही कथनों का चयन कीजिए:

- A. शिक्षण के अन्योन्यक्रियात्मक चरण में शिक्षार्थियों का निरूपण किया जाता है।
- B. शिक्षण के सक्रियोत्तर चरण में शिक्षार्थियों का परिक्षण और प्रतिपुष्टि की जाती है।
- C. शिक्षण के सक्रियोत्तर चरण में लक्ष्य और विषयवस्तु निर्धारण किया जाता है।
- D. शिक्षण के सक्रियोत्तर चरण में उपयुक्त परीक्षण साधनों का चयन किया जाता है।
- E. शिक्षण के सक्रियोत्तर चरण में शिक्षण की रणनीतियों के बारे में निर्णय किया जाता है।

नीचे दिए गए विकल्पों में से सही उत्तर चुनें:

- 1. केवल C, D और E
- 2. केवल A, C और D
- 3. केवल A, B और D
- 4. केवल A, B और E

Options :

6119878421. 1

6119878422. 2

6119878423. 3

6119878424. 4

Question Number : 7 Question Id : 6119872164 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the educational objectives of cognitive domain from lower order to higher order skills.

- A. Evaluation
- B. Synthesis
- C. Analysis
- D. Knowledge
- E. Comprehension

Choose the **correct** answer from the options given below:

- 1. A, B, C, D, E
- 2. D, E, C, B, A
- 3. A, B, C, E, D
- 4. B, C, D, E, A

Options :

- 6119878425. 1
- 6119878426. 2
- 6119878427. 3
- 6119878428. 4

Question Number : 7 Question Id : 6119872164 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

संज्ञानात्मक क्षेत्र के शैक्षणिक उद्देश्यों को निम्न स्तर के कौशलों से उच्चतर स्तर के कौशलों के क्रम में लगाएं।

- A. मूल्यांकन
- B. संश्लेषण
- C. विश्लेषण
- D. ज्ञान
- E. बोध

नीचे दिए गए विकल्पों में से सही उत्तर चुनें:

- 1. A, B, C, D, E
- 2. D, E, C, B, A
- 3. A, B, C, E, D
- 4. B, C, D, E, A

Options :

- 6119878425. 1
- 6119878426. 2
- 6119878427. 3
- 6119878428. 4

Question Number : 8 Question Id : 6119872165 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Concept Mapping	I.	Graphical tools for organizing and representing knowledge
B.	Five E based Lesson Planning	II.	Constructive Approach
C.	Stimulus-response based lesson planning	III.	Systematic arrangement of subject matter
D.	Unit Plan	IV.	Behaviourist Approach

Choose the **correct** answer from the options given below:

1. A-III, B-II, C-I, D-IV
2. A-I, B-II, C-IV, D-III
3. A-III, B-I, C-II, D-IV
4. A-IV, B-III, C-II, D-I

Options :

6119878429. 1
6119878430. 2
6119878431. 3
6119878432. 4

Question Number : 8 Question Id : 6119872165 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical सूची -I को सूची-II से सुमेलित करें

सूची -I		सूची -II	
A.	संकल्पना प्रतिचित्रण	I.	ज्ञान के संगठन और प्रतिकरण के लिए ग्राफीय उपकरण
B.	पाँच इ-आधारित पाठ-योजना	II.	रचनात्मक उपागम
C.	उद्दीपन-अनुक्रिया आधारित पाठ योजना	III.	विषय-वस्तु की व्यवस्थित विन्यास/योजना
D.	इकाई योजना	IV.	व्यवहारवादी उपागम

नीचे दिए गए विकल्पों में से सही विकल्प चुनें:

1. A-III, B-II, C-I, D-IV
2. A-I, B-II, C-IV, D-III
3. A-III, B-I, C-II, D-IV
4. A-IV, B-III, C-II, D-I

Options :

6119878429. 1
6119878430. 2
6119878431. 3
6119878432. 4

Question Number : 9 Question Id : 6119872166 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

The SWAYAM was launched in _____.

1. 2015
2. 2017
3. 2019
4. 2020

Options :

- 6119878433. 1
- 6119878434. 2
- 6119878435. 3
- 6119878436. 4

Question Number : 9 Question Id : 6119872166 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

'स्वयम्', को किस वर्ष में आरम्भ किया गया था?

1. 2015
2. 2017
3. 2019
4. 2020

Options :

- 6119878433. 1
- 6119878434. 2
- 6119878435. 3
- 6119878436. 4

Question Number : 10 Question Id : 6119872167 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is NOT the criticism of behaviourist model of teaching?

1. It doesn't take into account important internal processes that take place in mind.
2. It is not appropriate for higher order learning.
3. It is not appropriate for lower order learning.
4. Learning is sometimes beyond the association between stimulus and response.

Options :

- 6119878437. 1
- 6119878438. 2
- 6119878439. 3
- 6119878440. 4

Question Number : 10 Question Id : 6119872167 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित में से कौन शिक्षण के व्यवहारवादी मॉडल की आलोचना **नहीं** है?

1. यह उन महत्वपूर्ण आंतरिक प्रक्रियाओं पर ध्यान नहीं देता है जो मस्तिष्क में चलती हैं।
2. यह उच्चतर स्तर के अधिगम हेतु उपयुक्त नहीं है।
3. यह निम्नतर स्तर के अधिगम हेतु उपयुक्त नहीं है।
4. कभी-कभी अधिगम उद्दीपन और अनुक्रिया के बीच के संबंध से परे होता है।

Options :

6119878437. 1

6119878438. 2

6119878439. 3

6119878440. 4

Question Number : 11 Question Id : 6119872168 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the advantages of open ended questions in survey research.

- A. It is easy to process answers.
- B. Respondents can answer in their own terms.
- C. They enhance the comparability of answers.
- D. They are useful for exploring new areas or ones in which the researcher has limited knowledge.

Choose the **correct** answer from the options given below:

1. A and B Only
2. A, B and C Only
3. B, C and D Only
4. B and D Only

Options :

6119878441. 1

6119878442. 2

6119878443. 3

6119878444. 4

Question Number : 11 Question Id : 6119872168 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

सर्वेक्षण अनुसंधान में मुक्त उत्तर वाले प्रश्नों के लाभ पहचानिए:

- उत्तरों का प्रक्रमण करना आसान होता है।
- उत्तरदाता अपने शब्दों में उत्तर दे सकता है।
- उनसे उत्तरों की तुलनीयता बढ़ जाती है।
- वे ऐसे नए क्षेत्रों का अन्वेषण करने के लिए उपयोगी होते हैं जिनमें अनुसंधानकर्ता का सीमित ज्ञान होता है।

नीचे दिए गए विकल्पों में से **सही** उत्तर का चयन कीजिए:

- केवल A और B
- केवल A, B और C
- केवल B, C और D
- केवल B और D

Options :

6119878441. 1
6119878442. 2
6119878443. 3
6119878444. 4

Question Number : 12 Question Id : 6119872169 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I Non-probability sampling		LIST-II Characteristic	
A.	Snowball	I.	Handpicked cases on the basis of specific usability
B.	Purposive	II.	Equivalent of stratified sampling
C.	Quota	III.	Choosing the nearest individuals to serve as respondents
D.	Convenience	IV.	Identify other respondents with the help of initial respondents

Choose the **correct** answer from the options given below:

- A-I, B-III, C-II, D-IV
- A-IV, B-I, C-II, D-III
- A-IV, B-III, C-II, D-I
- A-I, B-II, C-IV, D-III

Options :

6119878445. 1
6119878446. 2
6119878447. 3
6119878448. 4

Question Number : 12 Question Id : 6119872169 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

सूची -I को सूची-II से सुमेलित करें

सूची -I अप्रयिकता प्रतिचयन		सूची -II विशेषता	
A.	स्रो बॉल	I.	विशिष्ट प्रयोज्यता के आधार पर केस चुनना
B.	सोदेश्य	II.	स्तरीकृत प्रतिचयन के समतुल्य
C.	कोटा	III.	निकटस्थ व्यष्टियों को उत्तरदाताओं के रुप में चुनना
D.	सुविधाजनक	IV.	प्रारंभिक उत्तरदाताओं की मदद से अन्य उत्तरदाताओं की पहचान करना

नीचे दिए गए विकल्पों में से **सही** विकल्प चुनें:

1. A-I, B-III, C-II, D-IV
2. A-IV, B-I, C-II, D-III
3. A-IV, B-III, C-II, D-I
4. A-I, B-II, C-IV, D-III

Options :

6119878445. 1
6119878446. 2
6119878447. 3
6119878448. 4

Question Number : 13 Question Id : 6119872170 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following intervals of standard normal variate in increasing order of probabilities.

- A. $0 \leq Z \leq +1$
- B. $+1 \leq Z \leq +2$
- C. $+2 \leq Z \leq +3$
- D. $+3 \leq Z < +\infty$

Choose the **correct** answer from the options given below:

1. D, C, B, A
2. C, B, A, D
3. B, A, C, D
4. A, B, C, D

Options :

6119878449. 1
6119878450. 2
6119878451. 3
6119878452. 4

Question Number : 13 Question Id : 6119872170 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

आदर्श सामान्य विचर के निम्नलिखित अंतरालों को प्रायिकताओं के बढ़ते क्रम में रखें:

- A. $0 \leq Z \leq +1$
- B. $+1 \leq Z \leq +2$
- C. $+2 \leq Z \leq +3$
- D. $+3 \leq Z < +\infty$

नीचे दिए गए विकल्पों में से **सही** उत्तर का चयन कीजिए:

- 1. D, C, B, A
- 2. C, B, A, D
- 3. B, A, C, D
- 4. A, B, C, D

Options :

- 6119878449. 1
- 6119878450. 2
- 6119878451. 3
- 6119878452. 4

Question Number : 14 Question Id : 6119872171 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

In quantitative research strategy, the principal orientation to the role of theory in relation to research is

- 1. Inductive
- 2. Objectivism
- 3. Deductive
- 4. Constructionism

Options :

- 6119878453. 1
- 6119878454. 2
- 6119878455. 3
- 6119878456. 4

Question Number : 14 Question Id : 6119872171 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

मात्रात्मक शोध रणनीति में, शोध के संबंध में सिद्धांत की भूमिका का मुख्य अभिविन्यास है:

- 1. आगमनात्मक
- 2. विषयनिष्ठवाद
- 3. निगमनात्मक
- 4. निर्मितिवाद

Options :

- 6119878453. 1
- 6119878454. 2
- 6119878455. 3
- 6119878456. 4

Question Number : 15 Question Id : 6119872172 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Whether the results of a study can be generalized beyond the specific research context, refers to

1. reliability
2. replicability
3. internal validity
4. external validity

Options :

- 6119878457. 1
- 6119878458. 2
- 6119878459. 3
- 6119878460. 4

Question Number : 15 Question Id : 6119872172 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

क्या किसी अध्ययन के परिणाम विशिष्ट शोध अंतर्वस्तु से परे सामान्यीकृत कर सकते हैं? यह निम्नलिखित से संबंधित है:

1. विश्वसनीयता
2. प्रतिकृतीयता
3. आन्तरिक वैधता
4. बाह्य वैधता

Options :

- 6119878457. 1
- 6119878458. 2
- 6119878459. 3
- 6119878460. 4

Question Number : 16 Question Id : 6119872173 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: The influence of mass media is rarely direct.

Reason R: According to Limited Effects theories, media effects are almost always mediated by group membership or relationships.

In the light of the above statements, choose the **correct** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 6119878461. 1
- 6119878462. 2
- 6119878463. 3
- 6119878464. 4

Question Number : 16 Question Id : 6119872173 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

नीचे दो कथन दिए गए हैं: एक अभिकथन (Assertion A) के रूप में है तो दूसरा उसके कारण (Reason R) के रूप में:

अभिकथन A: मास मीडिया (जन संचार) का प्रभाव दुर्लभतः प्रत्यक्ष होता है।

कारण R: सीमित प्रभाव सिद्धांतों के अनुसार, मीडिया प्रभाव लगभग सदैव समूह के सदस्यों और संबंधों द्वारा व्यवहित होते हैं।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त **उत्तर** का चयन कीजिए

1. A और R दोनों सही हैं और R, A की सही व्याख्या है
2. A और R दोनों सही हैं और R, A की सही व्याख्या नहीं है
3. A सही है और R सही नहीं है
4. A सही नहीं है और R सही है

Options :

- 6119878461. 1
- 6119878462. 2
- 6119878463. 3
- 6119878464. 4

Question Number : 17 Question Id : 6119872174 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following in the ascending order of year of appearance beginning with the oldest.

- A. Radio
- B. Television
- C. Book
- D. Prototypical Newspaper
- E. Film

Choose the **correct** answer from the options given below:

1. E, C, D, A, B
2. D, C, E, A, B
3. C, D, E, A, B
4. C, E, D, A, B

Options :

- 6119878465. 1
- 6119878466. 2
- 6119878467. 3
- 6119878468. 4

Question Number : 17 Question Id : 6119872174 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित को प्राचीनतम से शुरू करते हुए उनके आविष्कार के वर्ष के आरोही क्रम में रखें:

- A. रेडियो
- B. टेलीविज़न
- C. पुस्तक
- D. प्रोटोटाइपिकल न्यूज़ पेपर (आद्यप्ररूपी समाचार पत्र)
- E. फिल्म

नीचे दिए गए विकल्पों में से **सही** उत्तर का चयन कीजिए:

- 1. E, C, D, A, B
- 2. D, C, E, A, B
- 3. C, D, E, A, B
- 4. C, E, D, A, B

Options :

- 6119878465. 1
- 6119878466. 2
- 6119878467. 3
- 6119878468. 4

Question Number : 18 Question Id : 6119872175 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I Types of groups in communication		LIST-II Characteristic	
A.	Primary Group	I.	Members interact with one another to benefit an audience
B.	Self-help Group	II.	Goal is to improve members' skills
C.	Learning Group	III.	Membership is based on sentiment
D.	Public Group	IV.	All members have a common problem

Choose the **correct** answer from the options given below:

- 1. A-III, B-IV, C-II, D-I
- 2. A-II, B-IV, C-III, D-I
- 3. A-I, B-IV, C-II, D-III
- 4. A-III, B-II, C-IV, D-I

Options :

- 6119878469. 1
- 6119878470. 2
- 6119878471. 3
- 6119878472. 4

Question Number : 18 Question Id : 6119872175 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

सूची -I को सूची-II से सुमेलित करें

सूची -I (सम्प्रोषण में समूहों के प्रकार)		सूची -II (विशेषताएं)	
A.	प्राथमिक समूह	I.	श्रोता के लाभ के लिए सदस्य एक-दूसरे से परस्पर क्रिया करते हैं।
B.	स्व-सहायता समूह	II.	सदस्यों के कौशलों में सुधार करना लक्ष्य होता है।
C.	अधिगम समूह	III.	सदस्यता भावना पर आधारित होती है।
D.	जन समूह	IV.	सभी सदस्यों की साझा समस्या होती है।

नीचे दिए गए विकल्पों में से सही विकल्प चुनें:

1. A-III, B-IV, C-II, D-I
2. A-II, B-IV, C-III, D-I
3. A-I, B-IV, C-II, D-III
4. A-III, B-II, C-IV, D-I

Options :

6119878469. 1
6119878470. 2
6119878471. 3
6119878472. 4

Question Number : 19 Question Id : 6119872176 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

A person who believes that all social, political, economic and cultural change is inevitably based on the development and diffusion of technology, is a

1. Technological Determinist
2. Cultural Determinist
3. Technological Sceptic
4. Economic Determinist

Options :

6119878473. 1
6119878474. 2
6119878475. 3
6119878476. 4

Question Number : 19 Question Id : 6119872176 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

एक व्यक्ति, जो यह मानता है कि सभी सामाजिक, राजनीतिक, आर्थिक और सांस्कृतिक बदलाव अनिवार्यतः प्रौद्योगिकी के विकास और प्रसार पर आधारित होते हैं, वह है:

1. प्रौद्योगिकीय निर्धारणवादी
2. सांस्कृतिक निर्धारणवादी
3. प्रौद्योगिकीय संशयवादी
4. आर्थिक निर्धारणवादी

Options :

- 6119878473. 1
- 6119878474. 2
- 6119878475. 3
- 6119878476. 4

Question Number : 20 Question Id : 6119872177 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

In everyday conversation, when people make reference to paying attention, planning, forgetting, guessing, daydreaming and so on, they are invoking:

1. Propaganda
2. Cognitive Concepts
3. Misinformation
4. Disinformation

Options :

- 6119878477. 1
- 6119878478. 2
- 6119878479. 3
- 6119878480. 4

Question Number : 20 Question Id : 6119872177 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

दिन-प्रतिदिन की चर्चा में जब लोग ध्यान देने, योजना बनाने, भूलने, अनुमान लगाने, दिवा स्वपन आदि का संदर्भ देते हैं, तो वे किसका आह्वान कर रहे हैं:

1. दुष्प्रचार
2. संज्ञानात्मक अवधारणाएं
3. गलत सूचना (मिसइन्फोर्मेशन)
4. विकृत सूचना (डिसइन्फोर्मेशन)

Options :

- 6119878477. 1
- 6119878478. 2
- 6119878479. 3
- 6119878480. 4

Question Number : 21 Question Id : 6119872178 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

The incomes of A and B are in the ratio of 3:2 and their expenses are in the ratio of 5:3. If each of them saves Rs.3000, then A's income (in Rs.) is

1. ₹15000
2. ₹12000
3. ₹6000
4. ₹18000

Options :

6119878481. 1
6119878482. 2
6119878483. 3
6119878484. 4

Question Number : 21 Question Id : 6119872178 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

A और B की आय 3:2 के अनुपात में है और उनके व्यय का अनुपात 5:3 है। यदि उनमें से प्रत्येक 3000 रुपये की बचत करता है, तो A की आय (रुपये में) कितनी है?

1. ₹15000
2. ₹12000
3. ₹6000
4. ₹18000

Options :

6119878481. 1
6119878482. 2
6119878483. 3
6119878484. 4

Question Number : 22 Question Id : 6119872179 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Complete the following series:

582, 581, 585, 576, 592, 567, _____

1. 601
2. 602
3. 603
4. 599

Options :

6119878485. 1
6119878486. 2
6119878487. 3
6119878488. 4

Question Number : 22 Question Id : 6119872179 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित श्रृंखला पूरी करें:

582, 581, 585, 576, 592, 567, _____

1. 601
2. 602
3. 603
4. 599

Options :

- 6119878485. 1
- 6119878486. 2
- 6119878487. 3
- 6119878488. 4

Question Number : 23 Question Id : 6119872180 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following fractions in descending order:

- A. $\frac{9}{11}$
- B. $\frac{8}{9}$
- C. $\frac{4}{7}$
- D. $\frac{3}{5}$
- E. $\frac{8}{15}$

Choose the **correct** answer from the options given below:

1. B>D>A>E>C
2. B>A>E>D>C
3. A>B>C>D>E
4. B>A>D>C>E

Options :

- 6119878489. 1
- 6119878490. 2
- 6119878491. 3
- 6119878492. 4

Question Number : 23 Question Id : 6119872180 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित भिन्नो को अवरोही क्रम में व्यवस्थित कीजिए:

- A. 9/11
- B. 8/9
- C. 4/7
- D. 3/5
- E. 8/15

नीचे दिए गए विकल्पों में से **सही** उत्तर का चयन कीजिए:

- 1. B>D>A>E>C
- 2. B>A>E>D>C
- 3. A>B>C>D>E
- 4. B>A>D>C>E

Options :

- 6119878489. 1
- 6119878490. 2
- 6119878491. 3
- 6119878492. 4

Question Number : 24 Question Id : 6119872181 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Identify the correct mathematical statements:

- A. A batsman makes a score of 87 runs in the 17th inning and thus increases his average by 3. Then his average after 17th inning is 36.
- B. The value of a number subtracted from Numerator and Denominator of the fraction 6/7 to get a fraction equal to 3/4 is 3.
- C. If 15% of 40 is greater than 25% of a number by 2, then the number is 16.
- D. The value of $(1+1/2) (1+1/3) (1+1/4) \dots\dots\dots (1+1/120)$ is 60.5

Choose the **correct** answer from the options given below:

- 1. B, C and D Only
- 2. B and C Only
- 3. C and D Only
- 4. A and B Only

Options :

- 6119878493. 1
- 6119878494. 2
- 6119878495. 3
- 6119878496. 4

Question Number : 24 Question Id : 6119872181 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

सही गणितीय कथनों की पहचान कीजिए:

- एक बल्लेबाज अपनी 17वीं पारी में 87 रन बनाता है और इस प्रकार अपनी औसत रन संख्या में 3 की वृद्धि करता है। 17वीं पारी के बाद उसका औसत 36 है।
- $\frac{3}{4}$ के बराबर भिन्न प्राप्त करने हेतु भिन्न $\frac{6}{7}$ के अंश और भाजक से घटाई जाने वाली संख्या का मान 3 है।
- यदि 40 का 15% एक संख्या के 25% से 2 अधिक है तो वह संख्या 16 है।
- $(1+\frac{1}{2})(1+\frac{1}{3})(1+\frac{1}{4}) \dots \dots (1+\frac{1}{120})$ का मान 60.5 है।

नीचे दिए गए विकल्पों में से **सही** उत्तर का चयन कीजिए:

- केवल B, C और D
- केवल B और C
- केवल C और D
- केवल A और B

Options :

6119878493. 1
6119878494. 2
6119878495. 3
6119878496. 4

Question Number : 25 Question Id : 6119872182 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I Word		LIST-II Code	
A.	CRAB	I.	32
B.	BARK	II.	49
C.	OVER	III.	24
D.	SING	IV.	60

Choose the **correct** answer from the options given below:

- A-II, B-IV, C-I, D-III
- A-III, B-II, C-I, D-IV
- A-III, B-I, C-IV, D-II
- A-IV, B-III, C-II, D-I

Options :

6119878497. 1
6119878498. 2
6119878499. 3
6119878500. 4

Question Number : 25 Question Id : 6119872182 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

सूची -I को सूची-II से सुमेलित करें

सूची -I शब्द		सूची -II कूट	
A.	CRAB	I.	32
B.	BARK	II.	49
C.	OVER	III.	24
D.	SING	IV.	60

नीचे दिए गए विकल्पों में से सही विकल्प चुनें:

1. A-II, B-IV, C-I, D-III
2. A-III, B-II, C-I, D-IV
3. A-III, B-I, C-IV, D-II
4. A-IV, B-III, C-II, D-I

Options :

6119878497. 1
6119878498. 2
6119878499. 3
6119878500. 4

Question Number : 26 Question Id : 6119872183 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

"Sound is eternal, because it is caused" commits the fallacy (hetvābhāsa) of:

1. Asiddha
2. Satpratipakṣa
3. Savyabhicāra
4. Viruddha

Options :

6119878501. 1
6119878502. 2
6119878503. 3
6119878504. 4

Question Number : 26 Question Id : 6119872183 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

"ध्वनि शाश्वत है क्योंकि यह उत्पन्न की जाती है" में कौन सा हेत्वाभास दोष है?

1. असिद्ध
2. सत्प्रतिपक्ष
3. सव्यभिचार
4. विरुद्ध

Options :

6119878501. 1
6119878502. 2
6119878503. 3
6119878504. 4

Question Number : 27 Question Id : 6119872184 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I Source of Knowledge		LIST-II Accepted by	
A.	Yogaja Pratyakṣa	I.	Vedāntins
B.	Kevalajñāna	II.	Cārvāka
C.	Only Pratyakṣa	III.	Jaina
D.	Aparokṣānubhuti	IV.	Nyāya

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-III, C-IV, D-I
3. A-III, B-I, C-IV, D-II
4. A-IV, B-III, C-II, D-I

Options :

6119878505. 1
6119878506. 2
6119878507. 3
6119878508. 4

Question Number : 27 Question Id : 6119872184 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

सूची -I को सूची-II से सुमेलित करें

सूची -I प्रमाण		सूची -II द्वारा मान्य है	
A.	योगज प्रत्यक्ष	I.	वेदांती
B.	केवलज्ञान	II.	चारवाक
C.	केवल प्रत्यक्ष	III.	जैन
D.	अपरोक्षअनुभूति	IV.	न्याय

नीचे दिए गए विकल्पों में से **सही** विकल्प चुनें:

1. A-I, B-II, C-III, D-IV
2. A-II, B-III, C-IV, D-I
3. A-III, B-I, C-IV, D-II
4. A-IV, B-III, C-II, D-I

Options :

6119878505. 1
6119878506. 2
6119878507. 3
6119878508. 4

Question Number : 28 Question Id : 6119872185 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Validity can never apply to any single proposition by itself.

Reason R: Validity and invalidity are attribute of arguments.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

6119878509. 1
6119878510. 2
6119878511. 3
6119878512. 4

Question Number : 28 Question Id : 6119872185 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

नीचे दो कथन दिए गए हैं: एक अभिकथन (Assertion A) के रूप में है तो दूसरा उसके कारण (Reason R) के रूप में:

अभिकथन A: वैधता अपने आप ही किसी भी एक प्रतिज्ञप्ति पर कभी भी प्रयुक्त नहीं हो सकती।

कारण R: वैधता और अवैधता युक्तियों के गुण हैं।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त **उत्तर** का चयन कीजिए

1. A और R दोनों सही हैं और R, A की सही व्याख्या है
2. A और R दोनों सही हैं और R, A की सही व्याख्या नहीं है
3. A सही है और R सही नहीं है
4. A सही नहीं है और R सही है

Options :

6119878509. 1
6119878510. 2
6119878511. 3
6119878512. 4

Question Number : 29 Question Id : 6119872186 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following are TRUE:

- A. For the Nyāya, knowledge of Abhāva is acquired through Anupalabdhi Pramāṇa.
- B. The Nyāya makes a distinction between Laukika and Alaukika Pratyakṣa.
- C. The Nyāya reduces Arthāpatti to Anumāna.
- D. The Nyāya accepts the validity of Upamāna as a Pramāṇa.

Choose the **correct** answer from the options given below:

1. A and B Only
2. B and C Only
3. B, C and D Only
4. A, B, C and D

Options :

6119878513. 1
6119878514. 2
6119878515. 3
6119878516. 4

Question Number : 29 Question Id : 6119872186 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित में से कौन से सत्य हैं?

- A. न्याय के अनुसार, अभाव का ज्ञान अनुपलब्धि प्रमाण के माध्यम से अर्जित किया जाता है।
- B. न्याय लौकिक और अलौकिक प्रत्यक्ष के बीच विभेद करता है।
- C. न्याय अर्थापत्ति का अनुमान में अपचयन करता है।
- D. न्याय उपमान की वैधता प्रमाण के रूप में स्वीकार करता है।

नीचे दिए गए विकल्पों में से **सही** उत्तर का चयन कीजिए:

- 1. केवल A और B
- 2. केवल B और C
- 3. केवल B, C और D
- 4. A, B, C और D

Options :

- 6119878513. 1
- 6119878514. 2
- 6119878515. 3
- 6119878516. 4

Question Number : 30 Question Id : 6119872187 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following are TRUE:

- A. For the Cārvāka, patyakṣa is the only pramāṇa.
- B. For the Cārvāka, śabda is the only pramāṇa.
- C. For the Cārvāka, anumāna is not a pramāṇa.
- D. For the Jaina, Mati includes both perceptual and inferential knowledge.

Choose the **correct** answer from the options given below:

- 1. A and C Only
- 2. B and C Only
- 3. A and B Only
- 4. A, C and D Only

Options :

- 6119878517. 1
- 6119878518. 2
- 6119878519. 3
- 6119878520. 4

Question Number : 30 Question Id : 6119872187 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित में से कौन से सत्य हैं?

- A. चार्वाक के अनुसार, प्रत्यक्ष एकमात्र प्रमाण है।
- B. चार्वाक के अनुसार, शब्द एकमात्र प्रमाण है।
- C. चार्वाक के अनुसार, अनुमान एक प्रमाण नहीं है।
- D. जैन के अनुसार, मति में प्रत्यक्षात्मक ज्ञान और अनुमानात्मक ज्ञान दोनों शामिल हैं।

नीचे दिए गए विकल्पों में से **सही** उत्तर का चयन कीजिए:

1. केवल A और C
2. केवल B और C
3. केवल A और B
4. केवल A, C और D

Options :

6119878517. 1
6119878518. 2
6119878519. 3
6119878520. 4

Question Number : 31 Question Id : 6119872188 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

USB stands for _____.

1. Uniform Service Bus
2. Universal Serial Bus
3. Uniform Sector Buffer
4. Universe Service Bus

Options :

6119878521. 1
6119878522. 2
6119878523. 3
6119878524. 4

Question Number : 31 Question Id : 6119872188 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

यू एस बी (USB) का पूर्ण रूप है:

1. यूनिफार्म सर्विस बस
2. यूनिवर्सल सीरियल बस
3. यूनिफार्म सेक्टर बफर
4. यूनिवर्स सर्विस बस

Options :

6119878521. 1
6119878522. 2
6119878523. 3
6119878524. 4

Question Number : 32 Question Id : 6119872189 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is **NOT** a programming language?

1. Python
2. C
3. Java
4. Google

Options :

- 6119878525. 1
- 6119878526. 2
- 6119878527. 3
- 6119878528. 4

Question Number : 32 Question Id : 6119872189 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित में से कौन एक प्रोग्रामिंग भाषा नहीं है?

1. पाइथन
2. सी
3. जावा
4. गूगल

Options :

- 6119878525. 1
- 6119878526. 2
- 6119878527. 3
- 6119878528. 4

Question Number : 33 Question Id : 6119872190 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Keyboard	I.	Memory
B.	Monitor	II.	Processor
C.	CPU	III.	Output device
D.	ROM	IV.	Input device

Choose the **correct** answer from the options given below:

1. A-IV, B-III, C-II, D-I
2. A-I, B-IV, C-II, D-III
3. A-III, B-II, C-IV, D-I
4. A-I, B-II, C-IV, D-III

Options :

6119878529. 1
6119878530. 2
6119878531. 3
6119878532. 4

Question Number : 33 Question Id : 6119872190 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

सूची -I को सूची-II से सुमेलित करें

सूची -I		सूची -II	
A.	कुंजी पटल (कीबोर्ड)	I.	स्मृति (मेमोरी)
B.	मॉनीटर	II.	संसाधित्र (प्रोसेसर)
C.	सी पी यू	III.	आउटपुट डिवाइस
D.	रोम (ROM)	IV.	इनपुट डिवाइस

नीचे दिए गए विकल्पों में से **सही** विकल्प चुनें:

1. A-IV, B-III, C-II, D-I
2. A-I, B-IV, C-II, D-III
3. A-III, B-II, C-IV, D-I
4. A-I, B-II, C-IV, D-III

Options :

6119878529. 1
6119878530. 2
6119878531. 3
6119878532. 4

Question Number : 34 Question Id : 6119872191 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following memories/storage are volatile?

- A. RAM
- B. ROM
- C. Cache
- D. SSD
- E. HDD

Choose the **correct** answer from the options given below:

1. A, C and D Only
2. B, D and E Only
3. A and C Only
4. A and B Only

Options :

- 6119878533. 1
- 6119878534. 2
- 6119878535. 3
- 6119878536. 4

Question Number : 34 Question Id : 6119872191 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित में से कौन-कौन स्मृतियां/भंडार लोपशील (वोलेटाइल) हैं?

- A. रैम (RAM)
- B. रोम (ROM)
- C. कैशे (Cache)
- D. एस एस डी
- E. एच डी डी

नीचे दिए गए विकल्पों में से **सही** उत्तर का चयन कीजिए:

1. केवल A, C और D
2. केवल B, D और E
3. केवल A और C
4. केवल A और B

Options :

- 6119878533. 1
- 6119878534. 2
- 6119878535. 3
- 6119878536. 4

Question Number : 35 Question Id : 6119872192 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following operating systems in correct chronological order of their development

- A. Linux
- B. MS-DOS
- C. MAC OS
- D. Windows

Choose the **correct** answer from the options given below:

- 1. D, B, A, C
- 2. B, C, A, D
- 3. A, B, C, D
- 4. B, A, D, C

Options :

- 6119878537. 1
- 6119878538. 2
- 6119878539. 3
- 6119878540. 4

Question Number : 35 Question Id : 6119872192 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित प्रचालन प्रणालियों को उनके विकसित होने के सही कालक्रमानुसार व्यवस्थित कीजिए:

- A. लिनक्स
- B. एम एस (MS)-डॉस
- C. मैक (MAC) ओ एस
- D. विंडोज

नीचे दिए गए विकल्पों में से **सही** उत्तर का चयन कीजिए:

- 1. D, B, A, C
- 2. B, C, A, D
- 3. A, B, C, D
- 4. B, A, D, C

Options :

- 6119878537. 1
- 6119878538. 2
- 6119878539. 3
- 6119878540. 4

Question Number : 36 Question Id : 6119872193 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Eutrophication leads to depletion of dissolved oxygen in a lake.

Reason R: Dissolved oxygen in water decreases with increase in temperature.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 6119878541. 1
- 6119878542. 2
- 6119878543. 3
- 6119878544. 4

Question Number : 36 Question Id : 6119872193 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

नीचे दो कथन दिए गए हैं: एक अभिकथन (**Assertion A**) के रूप में है तो दूसरा उसके कारण (**Reason R**) के रूप में:

अभिकथन A: सुपोषण (यूट्रोफिकेशन) के परिणामस्वरूप झील में विलयित ऑक्सीजन का हास होता है।

कारण R: जल में विलयित ऑक्सीजन की मात्रा तापमान बढ़ने के साथ-साथ घटती जाती है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त **उत्तर** का चयन कीजिए

1. **A** और **R** दोनों सही हैं और **R, A** की सही व्याख्या है
2. **A** और **R** दोनों सही हैं और **R, A** की सही व्याख्या नहीं है
3. **A** सही है और **R** सही नहीं है
4. **A** सही नहीं है और **R** सही है

Options :

- 6119878541. 1
- 6119878542. 2
- 6119878543. 3
- 6119878544. 4

Question Number : 37 Question Id : 6119872194 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following in ascending order of their moisture content.

- A. Trash
- B. Rubbish
- C. Refuse
- D. Garbage

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. B, A, C, D
- 3. A, B, D, C
- 4. D, C, B, A

Options :

- 6119878545. 1
- 6119878546. 2
- 6119878547. 3
- 6119878548. 4

Question Number : 37 Question Id : 6119872194 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित को उनमें नमी की मात्रा के बढ़ते क्रम में रखें:

- A. टैश
- B. रबिश
- C. रिफ्यूज
- D. गारबेज

नीचे दिए गए विकल्पों में से **सही** उत्तर का चयन कीजिए:

- 1. A, B, C, D
- 2. B, A, C, D
- 3. A, B, D, C
- 4. D, C, B, A

Options :

- 6119878545. 1
- 6119878546. 2
- 6119878547. 3
- 6119878548. 4

Question Number : 38 Question Id : 6119872195 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I Convention/Protocol		LIST-II Related With	
A.	Montreal Protocol	I.	Global Warming
B.	Stockholm Convention	II.	Transboundary movements of hazardous waste
C.	Kyoto Protocol	III.	Ozone layer depletion
D.	Basel Convention	IV.	Persistent organic pollutants

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-III, B-IV, C-I, D-II
3. A-IV, B-III, C-I, D-II
4. A-III, B-IV, C-II, D-I

Options :

6119878549. 1
6119878550. 2
6119878551. 3
6119878552. 4

Question Number : 38 Question Id : 6119872195 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

सूची -I को सूची-II से सुमेलित करें

सूची -I (अभिसमय/प्रोटोकॉल)		सूची -II (जिससे संबंधित है)	
A.	मोंट्रियल प्रोटोकॉल	I.	वैश्विक तापन
B.	स्टॉकहोम अभिसमय	II.	खतरनाक अपशिष्ट का सीमापार आवागमन
C.	क्योटो प्रोटोकॉल	III.	ओजोन परत का क्षरण
D.	बेसल अभिसमय	IV.	सतत कार्बनिक प्रदूषक

नीचे दिए गए विकल्पों में से **सही** विकल्प चुनें:

1. A-I, B-II, C-III, D-IV
2. A-III, B-IV, C-I, D-II
3. A-IV, B-III, C-I, D-II
4. A-III, B-IV, C-II, D-I

Options :

6119878549. 1
6119878550. 2
6119878551. 3
6119878552. 4

Question Number : 39 Question Id : 6119872196 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following renewable energy resources contributes highest proportion to the total installed power capacity in India?

1. Solar
2. Nuclear
3. Wind
4. Hydro

Options :

- 6119878553. 1
- 6119878554. 2
- 6119878555. 3
- 6119878556. 4

Question Number : 39 Question Id : 6119872196 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

भारत में कुल संस्थापित विद्युत क्षमता में निम्नलिखित में से किस नवीकरणीय ऊर्जा स्रोत का योगदान सर्वाधिक है?

1. सौर
2. नाभिकीय
3. पवन
4. जल (हाइड्रो)

Options :

- 6119878553. 1
- 6119878554. 2
- 6119878555. 3
- 6119878556. 4

Question Number : 40 Question Id : 6119872197 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

The Black-foot disease is caused by the contamination of _____ in drinking water.

1. Arsenic
2. Cadmium
3. Mercury
4. Lead

Options :

- 6119878557. 1
- 6119878558. 2
- 6119878559. 3
- 6119878560. 4

Question Number : 40 Question Id : 6119872197 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

ब्लैक-फुट रोग पेय जल में _____ के संदूषण के कारण होता है।

1. आर्सेनिक
2. कैडमियम
3. पारा (मरकरी)
4. सीसा (लेड)

Options :

- 6119878557. 1
- 6119878558. 2
- 6119878559. 3
- 6119878560. 4

Question Number : 41 Question Id : 6119872198 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which education policy first recommended 6% of GDP as public expenditure on education in India?

1. National Policy on Education, 1968
2. National Policy on Education, 1986
3. Revised NPE-Program on Action, 1992
4. National Education Policy, 2020

Options :

- 6119878561. 1
- 6119878562. 2
- 6119878563. 3
- 6119878564. 4

Question Number : 41 Question Id : 6119872198 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित में से किस शिक्षा नीति ने सर्वप्रथम भारत में शिक्षा पर सरकारी व्यय के रूप में जी डी पी का 6% खर्च करने की अनुशंसा की थी?

1. शिक्षा की राष्ट्रीय नीति, 1968
2. शिक्षा की राष्ट्रीय नीति, 1986
3. संशोधित एन पी ई-प्रोग्राम आन एक्शन, 1992
4. राष्ट्रीय शिक्षा नीति, 2020

Options :

- 6119878561. 1
- 6119878562. 2
- 6119878563. 3
- 6119878564. 4

Question Number : 42 Question Id : 6119872199 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

National Education Policy 2020 has entrusted _____ with the responsibility to setup the standards of content, technology and pedagogy for online/digital teaching-learning.

1. National Educational Technology Forum
2. Central Institute of Educational Technology
3. Consortium for Educational Communication
4. Indira Gandhi National Open University

Options :

- 6119878565. 1
- 6119878566. 2
- 6119878567. 3
- 6119878568. 4

Question Number : 42 Question Id : 6119872199 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

राष्ट्रीय शिक्षा नीति 2020 में ऑनलाइन/डिजिटल शिक्षण अधिगम के लिए अंतर्वस्तु, प्रौद्योगिकी और शिक्षाशास्त्र के मानक स्थापित करने का उत्तरदायित्व _____ को सौंपा गया है।

1. राष्ट्रीय शैक्षिक प्रौद्योगिकी मंच
2. केन्द्रीय शिक्षा प्रौद्योगिकी संस्थान
3. शैक्षिक संचार संघ (सीईसी)
4. इंदिरा गाँधी राष्ट्रीय मुक्त विश्वविद्यालय

Options :

- 6119878565. 1
- 6119878566. 2
- 6119878567. 3
- 6119878568. 4

Question Number : 43 Question Id : 6119872200 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Higher Education Institutions in the country with appropriate credit transfer mechanism are facilitating students to enroll themselves in pre-designed academic programmes.

Reason R: Academic Bank of Credits (ABC) works on the principle of multiple entry-multiple exit as well as any-time, any-where, and any-level learning.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 6119878569. 1
- 6119878570. 2
- 6119878571. 3
- 6119878572. 4

Question Number : 43 Question Id : 6119872200 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

नीचे दो कथन दिए गए हैं: एक अभिकथन (**Assertion A**) के रूप में है तो दूसरा उसके कारण (**Reason R**) के रूप में:

अभिकथन A: देश में उपयुक्त क्रेडिट अंतरण तंत्र वाले उच्च शिक्षा संस्थान विद्यार्थियों को पूर्व अभिकल्पित अकादमिक कार्यक्रमों में स्वयं के पंजीकरण की सुविधा प्रदान करते हैं।

कारण R: अकादमिक क्रेडिट बैंक (ए बी सी) कभी भी, कहीं भी तथा किसी स्तर के अधिगम के साथ-साथ बहुल प्रवेश-बहुल निकास के सिद्धांत पर कार्य करता है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त **उत्तर** का चयन कीजिए

1. **A** और **R** दोनों सही हैं और **R, A** की सही व्याख्या है
2. **A** और **R** दोनों सही हैं और **R, A** की सही व्याख्या नहीं है
3. **A** सही है और **R** सही नहीं है
4. **A** सही नहीं है और **R** सही है

Options :

- 6119878569. 1
- 6119878570. 2
- 6119878571. 3
- 6119878572. 4

Question Number : 44 Question Id : 6119872201 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following phrases in the vision of National Education Policy, 2020 in the correct sequence of their appearance:

- A. A conscious awareness of one's roles and responsibilities in a changing world
- B. An education system rooted in Indian Ethos
- C. Developing a deep sense of respect towards the fundamental duties and constitutional values
- D. Transforming Bharat into an equitable and vibrant knowledge society
- E. Instilling among learners a deep-rooted pride in being Indian

Choose the **correct** answer from the options given below:

1. B, C, A, D, E
2. D, E, A, C, B
3. E, B, C, A, D
4. B, D, C, A, E

Options :

6119878573. 1
6119878574. 2
6119878575. 3
6119878576. 4

Question Number : 44 Question Id : 6119872201 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

राष्ट्रीय शिक्षा नीति, 2020 के दृष्टिकोण के निम्नलिखित पदबंधों को उनकी उपस्थिति के सही अनुक्रम में व्यवस्थित कीजिए:

- A. परिवर्तनशील जगत में किसी व्यक्ति की भूमिका और उत्तरदायित्व की सचेत जागरूकता।
- B. भारतीय लोकाचार में निबद्ध शिक्षा तंत्र।
- C. मौलिक कर्तव्यों और संवैधानिक मूल्यों के प्रति सम्मान का गहन बोध विकसित करना।
- D. भारत को साम्य और जीवंत ज्ञान समाज में रूपांतरित करना।
- E. अधिगमकर्ताओं में भारतीय होने के गहन मूल उत्थापन की शिक्षा देना।

नीचे दिए गए विकल्पों में से **सही** उत्तर का चयन कीजिए:

1. B, C, A, D, E
2. D, E, A, C, B
3. E, B, C, A, D
4. B, D, C, A, E

Options :

6119878573. 1
6119878574. 2
6119878575. 3
6119878576. 4

Question Number : 45 Question Id : 6119872202 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I (Body under HECI)		LIST-II (Function)	
A.	NHERC	I.	Accreditation of higher education Institutions
B.	NAAC	II.	Single point regulator for higher education sector
C.	HEGC	III.	Formulating a national higher education qualification framework
D.	GEC	IV.	Funding and financing of higher education

Choose the **correct** answer from the options given below:

1. A-II, B-I, C-IV, D-III
2. A-III, B-II, C-IV, D-I
3. A-I, B-IV, C-II, D-III
4. A-IV, B-I, C-III, D-II

Options :

6119878577. 1
6119878578. 2
6119878579. 3
6119878580. 4

Question Number : 45 Question Id : 6119872202 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

सूची -I को सूची-II से सुमेलित करें

सूची -I (एच ई सी आई के निकाय)		सूची -II (कार्य)	
A.	एन एच ई आर सी	I.	उच्च शिक्षा संस्थानों का प्रत्यायन
B.	एन ए ए सी	II.	उच्च शिक्षा क्षेत्र हेतु एकल नियामक
C.	एच ई जी सी	III.	राष्ट्रीय उच्च शिक्षा योग्यता फ्रेमवर्क का निर्माण
D.	जी ई सी	IV.	उच्च शिक्षा का निधिपोषण और वित्तीयन

नीचे दिए गए विकल्पों में से **सही** विकल्प चुनें:

1. A-II, B-I, C-IV, D-III
2. A-III, B-II, C-IV, D-I
3. A-I, B-IV, C-II, D-III
4. A-IV, B-I, C-III, D-II

Options :

6119878577. 1
6119878578. 2
6119878579. 3
6119878580. 4

Sub-Section Number :

3

Sub-Section Id :

61198787

Question Shuffling Allowed :

No

Is Section Default? :

No

Question Id : 6119872203 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (46 to 50)

Question Label : Comprehension

Read the passage given below and answer the questions 46-50:

The use of the term dharma for law, nevertheless, was neither universal nor inevitable. This is borne out by the first century C.E. author Kautilya's compendium *Treatise on Politics* (Arthaśāstra). The significance of Kautilya's work for the history of law in India rests primarily on the fact that it provides a different and in many respects unique lens into that history. His treatise belongs to a distinct scholarly tradition with social and political priorities different from those represented by the science of dharma (dharmaśāstra), the primary discipline devoted to jurisprudential reflection within the Brahmanical scholastic tradition. Kautilya makes no attempt to reduce the variety of laws within society into the single category of dharma. Indeed, we do not find a single comprehensive term within the *Treatise on Politics* to refer to law as such, or even to the broad areas of religious and secular norms covered by the term dharma within the discourse of the science of dharma. What is clear, however, is that Kautilya, both formally and in *obiter dicta*, argues for the plurality of law; law is not one but multiple. Although his text is later than the earliest documents of the science of dharma, it nevertheless taps into an alternate intellectual history that probably ran parallel to the one represented by the science of dharma.

Sub questions

Question Number : 46 Question Id : 6119872204 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

In simple terms, the first line of the given passage means:

1. There was nothing unavoidable or locally acceptable about the use of the word 'law' for 'dharma', anyway.
2. There was nothing inevitable or meaningful about the use of the word 'dharma' for law, anyway.
3. There was nothing unavoidable or globally acceptable about the use of the word 'dharma' for 'law', anyway.
4. There was nothing permanent or unavoidable about the use of the word 'dharma' for law, anyway.

Options :

6119878581. 1

6119878582. 2

6119878583. 3

6119878584. 4

Question Number : 47 Question Id : 6119872205 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

The work of Kautilya is of significance because:

1. It works as a complete view of the history of law.
2. It works as an alternate view of the history of law in India.
3. It works as a scholar's view that is identical to the science of dharma.
4. It works as a perspective that fits into contemporary ideas on dharma of his time.

Options :

6119878585. 1

6119878586. 2

6119878587. 3

6119878588. 4

Question Number : 48 Question Id : 6119872206 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

The word "comprehensive" in the passage can be replaced by the word _____.

1. alternative
2. intriguing
3. amazing
4. all-embracing

Options :

- 6119878589. 1
- 6119878590. 2
- 6119878591. 3
- 6119878592. 4

Question Number : 49 Question Id : 6119872207 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

The passage tells the reader that Kautilya "makes no attempt to reduce the variety of laws within society to the single category of dharma". This demonstrates his argument for the _____ of law.

1. Plurality
2. Jurisprudence
3. Scientific View
4. Scholastic base

Options :

- 6119878593. 1
- 6119878594. 2
- 6119878595. 3
- 6119878596. 4

Question Number : 50 Question Id : 6119872208 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is concerned primarily with jurisprudential reflection according to Brahmanical scholastic tradition?

1. Arthasastra
2. Nitisastra
3. Dharmasāstra
4. Treatise on Politics

Options :

- 6119878597. 1
- 6119878598. 2
- 6119878599. 3
- 6119878600. 4

Question Id : 6119872203 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (46 to 50)

Question Label : Comprehension

नीचे दिए गए गद्यांश को पढ़िए व प्रश्न 46-50 के उत्तर दीजिए:

विधि हेतु धर्म पद का प्रयोग, तथापि, न तो सार्विक था न ही अपरिहार्य। यह प्रथम शताब्दी सी ई के लेखक कौटिल्य के संग्रह ट्रीटाइज ऑन पॉलिटिक्स (अर्थशास्त्र) से निकला है। भारत में विधि इतिहास हेतु कौटिल्य की कृति का महत्व प्रथमतः इस तथ्य पर आधारित है कि यह उक्त इतिहास में एक भिन्न व कई मायनों में एक अनुपम दृष्टि प्रदान करती है। उनकी पुस्तक ब्राह्मणी शास्त्रीय परंपरा के भीतर न्यायशास्त्रीय चिंतन के प्रति समर्पित प्राथमिक विषय धर्म विज्ञान (धर्मशास्त्र) द्वारा प्रदर्शित सामाजिक व राजनितिक प्राथमिकताओं से भिन्न शास्त्रीय परंपरा से संबंधित है। कौटिल्य समाज के भीतर विधियों की विविधता को धर्म की एकल श्रेणी में घटाने का कोई प्रयास नहीं करते हैं। वास्तव में अर्थशास्त्र में हमें एक भी ऐसा सर्वांगसम पद नहीं दिखाई देता है जो स्वयं विधि अथवा धर्म के विज्ञान के विमर्श के भीतर धर्म पद के धार्मिक व धर्म निरपेक्ष मानकों की ओर संकेत करता हो। तथापि यह स्पष्ट है कि कौटिल्य प्रत्यक्षतः अथवा इतरोक्ति में विधि की बहुलता का पक्ष लेते हैं, विधि एक नहीं है, यह बहुल है। यद्यपि उनकी कृति धर्म विज्ञान के आरंभिक प्रलेखों की तुलना में बाद की है, तथापि यह वैकल्पिक बौद्धिक इतिहास को भी खँगालती है जो संभवतया धर्म के विज्ञान द्वारा प्रदर्शित इतिहास के समांतर चलता है।

Sub questions

Question Number : 46 Question Id : 6119872204 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

सरल शब्दों में, प्रदत्त गद्यांश की प्रथम पंक्ति का अर्थ है:

1. किसी भी रूप में 'धर्म' हेतु 'विधि' शब्द के प्रयोग के बारे में कुछ भी अपरिहार्य अथवा स्थानीय रूप से स्वीकार्य नहीं था।
2. किसी भी रूप में विधि हेतु 'धर्म' शब्द के प्रयोग के संबंध में कुछ भी अनिवार्य अथवा सार्थक नहीं था।
3. किसी भी रूप में, 'विधि' हेतु 'धर्म' शब्द के प्रयोग के संबंध में कुछ भी अनिवार्य अथवा वैश्विक रूप से स्वीकार्य नहीं था।
4. किसी भी रूप में, 'विधि' हेतु 'धर्म' शब्द के प्रयोग के संबंध में कुछ भी स्थायी अथवा अपरिहार्य नहीं था।

Options :

6119878581. 1
6119878582. 2
6119878583. 3
6119878584. 4

Question Number : 47 Question Id : 6119872205 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

कौटिल्य की कृति निम्न में से किस कारण महत्वपूर्ण है?

1. यह विधि के इतिहास के समग्र दृष्टिकोण के रूप में कार्य करती है।
2. यह भारत में विधि के इतिहास के प्रति वैकल्पिक दृष्टिकोण के रूप में कार्य करती है।
3. यह एक विद्वान के दृष्टिकोण के रूप में कार्य करती है जो धर्म के विज्ञान से समान है।
4. यह एक ऐसे परिप्रेक्ष्य के रूप में कार्य करती है जो उनके समय के धर्म संबंधी समकालिक विचारों से मेल खाता है।

Options :

6119878585. 1
6119878586. 2
6119878587. 3
6119878588. 4

Question Number : 48 Question Id : 6119872206 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

गद्यांश में 'सर्वांगसम' शब्द को _____ शब्द से प्रतिस्थापित किया जा सकता है।

1. वैकल्पिक
2. चित्ताकर्षक
3. अद्भुत
4. सर्व समावेशी

Options :

6119878589. 1
6119878590. 2
6119878591. 3
6119878592. 4

Question Number : 49 Question Id : 6119872207 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

गद्यांश पाठक को बताता है कि कौटिल्य "समाज में धर्मों की विविधता को धर्म की एकल श्रेणी में घटाने का कोई प्रयास नहीं करते हैं।" यह विधि की _____ हेतु उनके तर्क को प्रदर्शित करता है।

1. बहुलता
2. न्याय शास्त्र
3. वैज्ञानिक दृष्टिकोण
4. शास्त्रीय आधार

Options :

6119878593. 1
6119878594. 2
6119878595. 3
6119878596. 4

Question Number : 50 Question Id : 6119872208 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित में से कौन ब्राह्मणी शास्त्रीय परंपरा के अनुसार मुख्यतः न्यायशास्त्र के विषय से संबंधित है?

1. अर्थशास्त्र
2. नीतिशास्त्र
3. धर्मशास्त्र
4. ट्रीटाइज ऑन पॉलिटिक्स

Options :

6119878597. 1
6119878598. 2
6119878599. 3
6119878600. 4

Computer Science and Applications

Section Id :

61198730

Section Number :

2

Section type :

Online

Mandatory or Optional :	Mandatory
Number of Questions :	92
Number of Questions to be attempted :	92
Section Marks :	200
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	61198788
Question Shuffling Allowed :	Yes
Is Section Default? :	No

Question Number : 51 Question Id : 6119872209 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Which of the following is FALSE?

1. Every field is an integral domain.
2. Every integral domain is field
3. Finite integral domain is field.
4. The ring Z_p of integers module p is field iff p is prime.

Options :

- 6119878601. 1
- 6119878602. 2
- 6119878603. 3
- 6119878604. 4

Question Number : 51 Question Id : 6119872209 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Which of the following is FALSE?

1. Every field is an integral domain.
2. Every integral domain is field
3. Finite integral domain is field.
4. The ring Z_p of integers module p is field iff p is prime.

Options :

- 6119878601. 1
- 6119878602. 2
- 6119878603. 3
- 6119878604. 4

Question Number : 52 Question Id : 6119872210 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

If the set $S = \left\{ \begin{pmatrix} a & 0 \\ 0 & b \end{pmatrix} : a, b \in \mathbb{Z} \right\}$ is subring of the ring M_2 of 2×2 matrices over the integers then S is a

1. left ideal but not right ideal.
2. right ideal but not left ideal.
3. both left and right ideal.
4. neither left ideal nor right ideal.

Options :

- 6119878605. 1
- 6119878606. 2
- 6119878607. 3
- 6119878608. 4

Question Number : 52 Question Id : 6119872210 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

If the set $S = \left\{ \begin{pmatrix} a & 0 \\ 0 & b \end{pmatrix} : a, b \in \mathbb{Z} \right\}$ is subring of the ring M_2 of 2×2 matrices over the integers then S is a

1. left ideal but not right ideal.
2. right ideal but not left ideal.
3. both left and right ideal.
4. neither left ideal nor right ideal.

Options :

- 6119878605. 1
- 6119878606. 2
- 6119878607. 3
- 6119878608. 4

Question Number : 53 Question Id : 6119872211 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: The order of the group (\mathbb{Z}_5, \times) divides the order of the group $(\mathbb{Z}_{13}, \times)$

Reason R: The order of a subgroup of a group divides the order of the group.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 6119878609. 1
- 6119878610. 2
- 6119878611. 3
- 6119878612. 4

Question Number : 53 Question Id : 6119872211 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: The order of the group (Z_5, \times) divides the order of the group (Z_{13}, \times)

Reason R: The order of a subgroup of a group divides the order of the group.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

6119878609. 1

6119878610. 2

6119878611. 3

6119878612. 4

Question Number : 54 Question Id : 6119872212 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Let $R \subseteq A \times A$ be a binary relation as defined below:

$A = \mathbb{N} \times \mathbb{N}$; $((a,b), (c,d)) \in R$ if only if $a \leq c$ or $b \leq d$. This binary relation R is a partial order.

Reason R: A binary relation will be a partial order if this satisfy reflexive, anti-symmetric and transitive property.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

6119878613. 1

6119878614. 2

6119878615. 3

6119878616. 4

Question Number : 54 Question Id : 6119872212 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Let $R \subseteq A \times A$ be a binary relation as defined below:

$A = \mathbb{N} \times \mathbb{N}$; $((a,b), (c,d)) \in R$ if only if $a \leq c$ or $b \leq d$. This binary relation R is a partial order.

Reason R: A binary relation will be a partial order if this satisfy reflexive, anti-symmetric and transitive property.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 6119878613. 1
- 6119878614. 2
- 6119878615. 3
- 6119878616. 4

Question Number : 55 Question Id : 6119872213 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following statements are true if universe of discourse for all variables consist of all integers?

- A. $\forall n \exists m (n^2 < m)$
- B. $\exists n \exists m (n+m=4 \wedge n-m=2)$
- C. $\exists n \exists m (n^2 + m^2 = 5)$
- D. $\exists m \forall n (m+n=0)$
- E. $\forall m \exists n (m+n=0)$

Choose the **correct** answer from the options given below:

1. A, B & C Only
2. A, B, C & D Only
3. A, B, C & E Only
4. B, C, E & D Only

Options :

- 6119878617. 1
- 6119878618. 2
- 6119878619. 3
- 6119878620. 4

Question Number : 55 Question Id : 6119872213 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following statements are true if universe of discourse for all variables consist of all integers?

- A. $\forall n \exists m (n^2 < m)$
- B. $\exists n \exists m (n+m=4 \wedge n-m=2)$
- C. $\exists n \exists m (n^2 + m^2 = 5)$
- D. $\exists m \forall n (m+n=0)$
- E. $\forall m \exists n (m+n=0)$

Choose the **correct** answer from the options given below:

- 1. A, B & C Only
- 2. A, B, C & D Only
- 3. A, B, C & E Only
- 4. B, C, E & D Only

Options :

- 6119878617. 1
- 6119878618. 2
- 6119878619. 3
- 6119878620. 4

Question Number : 56 Question Id : 6119872214 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the followings logical implications are tautology?

- A. $[\sim p \wedge (p \vee q)] \rightarrow q$
- B. $\sim p \rightarrow (p \rightarrow q)$
- C. $[p \wedge (p \rightarrow q)] \rightarrow q$
- D. $\sim (p \rightarrow q) \rightarrow q$

Choose the **correct** answer from the options given below:

- 1. A & B Only
- 2. B & D Only
- 3. A, B & C Only
- 4. B, C & D Only

Options :

- 6119878621. 1
- 6119878622. 2
- 6119878623. 3
- 6119878624. 4

Question Number : 56 Question Id : 6119872214 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the followings logical implications are tautology?

A. $[\sim p \wedge (p \vee q)] \rightarrow q$

B. $\sim p \rightarrow (p \rightarrow q)$

C. $[p \wedge (p \rightarrow q)] \rightarrow q$

D. $\sim (p \rightarrow q) \rightarrow q$

Choose the **correct** answer from the options given below:

1. A & B Only
2. B & D Only
3. A, B & C Only
4. B, C & D Only

Options :

6119878621. 1

6119878622. 2

6119878623. 3

6119878624. 4

Question Number : 57 Question Id : 6119872215 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

If K_n is complete simple graph of n vertices and $K_{m,n}$ is complete bipartite graph then arrange the following non-planar graph in ascending order on the bases of the minimum number of crossings.

A. K_6

B. K_7

C. $K_{4,4}$

D. $K_{5,5}$

Choose the **correct** answer from the options given below:

1. A, B, C, D
2. C, D, A, B
3. A, C, B, D
4. B, D, A, C

Options :

6119878625. 1

6119878626. 2

6119878627. 3

6119878628. 4

Question Number : 57 Question Id : 6119872215 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

If K_n is complete simple graph of n vertices and $K_{m,n}$ is complete bipartite graph then arrange the following non-planar graph in ascending order on the bases of the minimum number of crossings.

- A. K_6
- B. K_7
- C. $K_{4,4}$
- D. $K_{5,5}$

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. C, D, A, B
- 3. A, C, B, D
- 4. B, D, A, C

Options :

- 6119878625. 1
- 6119878626. 2
- 6119878627. 3
- 6119878628. 4

Question Number : 58 Question Id : 6119872216 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following prefix expressions in ascending order on the basis of their values.

- A. $- * 2 / 8 4 3$
- B. $\uparrow - * 3 6 * 4 2 5$
- C. $+ - \uparrow 3 2 \uparrow 2 3 / 6 - 4 2$
- D. $* + 3 + 3 \uparrow 3 + 1 1 3$

Choose the **correct** answer from the options given below:

- 1. A, D, C, B
- 2. A, C, D, B
- 3. A, B, C, D
- 4. C, A, D, B

Options :

- 6119878629. 1
- 6119878630. 2
- 6119878631. 3
- 6119878632. 4

Question Number : 58 Question Id : 6119872216 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following prefix expressions in ascending order on the basis of their values.

- A. $- * 2 / 8 4 3$
- B. $\uparrow - * 3 6 * 4 2 5$
- C. $+ - \uparrow 3 2 \uparrow 2 3 / 6 - 4 2$
- D. $* + 3 + 3 \uparrow 3 + 1 1 3$

Choose the **correct** answer from the options given below:

- 1. A, D, C, B
- 2. A, C, D, B
- 3. A, B, C, D
- 4. C, A, D, B

Options :

- 6119878629. 1
- 6119878630. 2
- 6119878631. 3
- 6119878632. 4

Question Number : 59 Question Id : 6119872217 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the **LIST-I** with **LIST-II** : BOOLEAN IDENTITIES

LIST-I		LIST-II	
Name		Identity	
A.	Domination law	I.	$x + 1 = 1$
B.	Associative law	II.	$x + (yz) = (x + y)(x + z)$
C.	Distributive law	III.	$x + xy = x$
D.	Absorption law	IV.	$x + (y + z) = (x + y) + z$

Choose the **correct** answer from the options given below:

- 1. A-I, B-II, C-IV, D-III
- 2. A-I, B-IV, C-II, D-III
- 3. A-III, B-IV, C-II, D-I
- 4. A-III, B-II, C-IV, D-I

Options :

- 6119878633. 1
- 6119878634. 2
- 6119878635. 3
- 6119878636. 4

Question Number : 59 Question Id : 6119872217 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Match the LIST-I with LIST-II : BOOLEAN IDENTITIES

LIST-I		LIST-II	
Name		Identity	
A.	Domination law	I.	$x + 1 = 1$
B.	Associative law	II.	$x + (yz) = (x + y)(x + z)$
C.	Distributive law	III.	$x + xy = x$
D.	Absorption law	IV.	$x + (y + z) = (x + y) + z$

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-IV, D-III
2. A-I, B-IV, C-II, D-III
3. A-III, B-IV, C-II, D-I
4. A-III, B-II, C-IV, D-I

Options :

- 6119878633. 1
- 6119878634. 2
- 6119878635. 3
- 6119878636. 4

Question Number : 60 Question Id : 6119872218 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Match the LIST-I with LIST-II

LIST-I		LIST-II	
Name of Methods		Problem Type	
A.	Branch and bound method	I.	Integer Programming Problem
B.	The North-west corner rule	II.	Quadratic Programming Problem
C.	Lagrange Multiplier Method	III.	Transportation Problem
D.	Wolfe's Modified Method	IV.	Non-Linear programming problem

Choose the **correct** answer from the options given below:

1. A-III, B-II, C-IV, D-I
2. A-I, B-III, C-IV, D-II
3. A-II, B-I, C-IV, D-III
4. A-IV, B-I, C-II, D-III

Options :

- 6119878637. 1
- 6119878638. 2
- 6119878639. 3
- 6119878640. 4

Question Number : 60 Question Id : 6119872218 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I Name of Methods		LIST-II Problem Type	
A.	Branch and bound method	I.	Integer Programming Problem
B.	The North-west corner rule	II.	Quadratic Programming Problem
C.	Lagrange Multiplier Method	III.	Transportation Problem
D.	Wolfe's Modified Method	IV.	Non-Linear programming problem

Choose the **correct** answer from the options given below:

1. A-III, B-II, C-IV, D-I
2. A-I, B-III, C-IV, D-II
3. A-II, B-I, C-IV, D-III
4. A-IV, B-I, C-II, D-III

Options :

- 6119878637. 1
- 6119878638. 2
- 6119878639. 3
- 6119878640. 4

Question Number : 61 Question Id : 6119872219 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

A normalized matrix that maps a 3D window specified by coordinates (1, 1, 1) and (4, 5, 6) on to a viewport specified by coordinates (2, 4, 2) and (8, 10, 8) is

1.
$$\begin{bmatrix} 2 & 0 & 0 & 0 \\ 0 & \frac{3}{2} & 0 & \frac{5}{2} \\ 0 & 0 & \frac{6}{5} & \frac{4}{5} \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

2.
$$\begin{bmatrix} 2 & 0 & 0 & 0 \\ 0 & 3 & 0 & 5 \\ 0 & 0 & 6 & 4 \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

3.
$$\begin{bmatrix} 2 & 1 & 0 & 1 \\ 1 & 3 & 4 & 5 \\ 0 & 0 & 2 & 4 \\ 0 & 1 & 0 & 0 \end{bmatrix}$$

4.
$$\begin{bmatrix} 1 & 0 & 0 & 1 \\ 2 & 3 & 0 & 5 \\ 1 & 0 & 4 & 5 \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

Options :

6119878641. 1

6119878642. 2

6119878643. 3

6119878644. 4

Question Number : 61 Question Id : 6119872219 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

A normalized matrix that maps a 3D window specified by coordinates (1, 1, 1) and (4, 5, 6) on to a viewport specified by coordinates (2, 4, 2) and (8, 10, 8) is

1.
$$\begin{bmatrix} 2 & 0 & 0 & 0 \\ 0 & \frac{3}{2} & 0 & \frac{5}{2} \\ 0 & 0 & \frac{6}{5} & \frac{4}{5} \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

2.
$$\begin{bmatrix} 2 & 0 & 0 & 0 \\ 0 & 3 & 0 & 5 \\ 0 & 0 & 6 & 4 \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

3.
$$\begin{bmatrix} 2 & 1 & 0 & 1 \\ 1 & 3 & 4 & 5 \\ 0 & 0 & 2 & 4 \\ 0 & 1 & 0 & 0 \end{bmatrix}$$

4.
$$\begin{bmatrix} 1 & 0 & 0 & 1 \\ 2 & 3 & 0 & 5 \\ 1 & 0 & 4 & 5 \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

Options :

- 6119878641. 1
- 6119878642. 2
- 6119878643. 3
- 6119878644. 4

Question Number : 62 Question Id : 6119872220 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is not true about constructor

1. When an object is created and initialized at the same time, a copy constructor gets called.
2. They do not have return types, not even void.
3. They can be virtual.
4. They can not be inherited, though a derived class can call the base class constructor.

Options :

- 6119878645. 1
- 6119878646. 2
- 6119878647. 3
- 6119878648. 4

Question Number : 62 Question Id : 6119872220 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is not true about constructor

1. When an object is created and initialized at the same time, a copy constructor gets called.
2. They do not have return types, not even void.
3. They can be virtual.
4. They can not be inherited, though a derived class can call the base class constructor.

Options :

- 6119878645. 1
- 6119878646. 2
- 6119878647. 3
- 6119878648. 4

Question Number : 63 Question Id : 6119872221 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: The control points have only local control over the shape of the B-Splines.

Reason R: Bezier curves do have local control.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 6119878649. 1
- 6119878650. 2
- 6119878651. 3
- 6119878652. 4

Question Number : 63 Question Id : 6119872221 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: The control points have only local control over the shape of the B-Splines.

Reason R: Bezier curves do have local control.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 6119878649. 1
- 6119878650. 2
- 6119878651. 3
- 6119878652. 4

Question Number : 64 Question Id : 6119872222 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: We can build an object from a class containing a pure virtual function.

Reason R: A class containing a pure virtual function is called an abstract class.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 6119878653. 1
- 6119878654. 2
- 6119878655. 3
- 6119878656. 4

Question Number : 64 Question Id : 6119872222 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: We can build an object from a class containing a pure virtual function.

Reason R: A class containing a pure virtual function is called an abstract class.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 6119878653. 1
- 6119878654. 2
- 6119878655. 3
- 6119878656. 4

Question Number : 65 Question Id : 6119872223 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

For implicit type conversion, arrange the following from a lower size type to a high type size.

- A. double
- B. unsigned long int
- C. unsigned int
- D. long double
- E. long int

Choose the *correct* answer from the options given below:

1. E, C, B, A, D
2. C, B, E, D, A
3. E, C, A, B, D
4. C, E, B, A, D

Options :

- 6119878657. 1
- 6119878658. 2
- 6119878659. 3
- 6119878660. 4

Question Number : 65 Question Id : 6119872223 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

For implicit type conversion, arrange the following from a lower size type to a high type size.

- A. double
- B. unsigned long int
- C. unsigned int
- D. long double
- E. long int

Choose the **correct** answer from the options given below:

- 1. E, C, B, A, D
- 2. C, B, E, D, A
- 3. E, C, A, B, D
- 4. C, E, B, A, D

Options :

6119878657. 1

6119878658. 2

6119878659. 3

6119878660. 4

Question Number : 66 Question Id : 6119872224 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following applet life cycles methods in sequence

- A. start()
- B. paint()
- C. init()
- D. stop()

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. C, A, B, D
- 3. A, C, B, D
- 4. B, A, C, D

Options :

6119878661. 1

6119878662. 2

6119878663. 3

6119878664. 4

Question Number : 66 Question Id : 6119872224 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following applet life cycles methods in sequence

- A. start()
- B. paint()
- C. init()
- D. stop()

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. C, A, B, D
- 3. A, C, B, D
- 4. B, A, C, D

Options :

- 6119878661. 1
- 6119878662. 2
- 6119878663. 3
- 6119878664. 4

Question Number : 67 Question Id : 6119872225 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following statements are True?

- A. The ++ operator can be overloaded to perform decrementation of a variable.
- B. It is necessary that a constructor in a class should always be public.
- C. Size of an object is equal to sum of sizes of data members and member functions within the class.
- D. A static data member is useful when all objects of a class are to share a common item of information.
- E. The this pointer always contains the address of the object using which the member function is being called.

Choose the **correct** answer from the options given below:

- 1. A, B, C Only
- 2. B, C, E Only
- 3. A, D, E Only
- 4. B, D, E Only

Options :

- 6119878665. 1
- 6119878666. 2
- 6119878667. 3
- 6119878668. 4

Question Number : 67 Question Id : 6119872225 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following statements are True?

- A. The ++ operator can be overloaded to perform decrementation of a variable.
- B. It is necessary that a constructor in a class should always be public.
- C. Size of an object is equal to sum of sizes of data members and member functions within the class.
- D. A static data member is useful when all objects of a class are to share a common item of information.
- E. The this pointer always contains the address of the object using which the member function is being called.

Choose the **correct** answer from the options given below:

- 1. A, B, C Only
- 2. B, C, E Only
- 3. A, D, E Only
- 4. B, D, E Only

Options :

- 6119878665. 1
- 6119878666. 2
- 6119878667. 3
- 6119878668. 4

Question Number : 68 Question Id : 6119872226 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following statements are true.

- A. Painters' algorithm is also called depth sort algorithm.
- B. Gourad shading is on interpolating shading method.
- C. Gourad shading is an averaging shading method.
- D. The Z-buffer algorithm finds the largest depth value Z.

Choose the **correct** answer from the options given below:

- 1. A, B Only
- 2. B, C Only
- 3. C, D Only
- 4. A, D Only

Options :

- 6119878669. 1
- 6119878670. 2
- 6119878671. 3
- 6119878672. 4

Question Number : 68 Question Id : 6119872226 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following statements are true.

- A. Painters' algorithm is also called depth sort algorithm.
- B. Gourad shading is on interpolating shading method.
- C. Gourad shading is an averaging shading method.
- D. The Z-buffer algorithm finds the largest depth value Z.

Choose the **correct** answer from the options given below:

- 1. A, B Only
- 2. B, C Only
- 3. C, D Only
- 4. A, D Only

Options :

- 6119878669. 1
- 6119878670. 2
- 6119878671. 3
- 6119878672. 4

Question Number : 69 Question Id : 6119872227 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I Quadric surfaces		LIST-II Equation	
A.	One-sheeted hyperboloid	I.	$\frac{x^2}{a^2} + \frac{y^2}{b^2} = cz$
B.	Two-sheeted hyperboloid	II.	$\frac{x^2}{a^2} + \frac{y^2}{b^2} - \frac{z^2}{c^2} = 1$
C.	Elliptic paraboloid	III.	$\frac{x^2}{a^2} - \frac{y^2}{b^2} = cz$
D.	Hyperbolic paraboloid	IV.	$\frac{z^2}{c^2} - \frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$

Choose the **correct** answer from the options given below:

- 1. A-I, B-II, C-III, D-IV
- 2. A-II, B-III, C-IV, D-I
- 3. A-II, B-IV, C-I, D-III
- 4. A-IV, B-II, C-I, D-III

Options :

- 6119878673. 1
- 6119878674. 2
- 6119878675. 3
- 6119878676. 4

Question Number : 69 Question Id : 6119872227 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I Quadric surfaces		LIST-II Equation	
A.	One-sheeted hyperboloid	I.	$\frac{x^2}{a^2} + \frac{y^2}{b^2} = cz$
B.	Two-sheeted hyperboloid	II.	$\frac{x^2}{a^2} + \frac{y^2}{b^2} - \frac{z^2}{c^2} = 1$
C.	Elliptic paraboloid	III.	$\frac{x^2}{a^2} - \frac{y^2}{b^2} = cz$
D.	Hyperbolic paraboloid	IV.	$\frac{z^2}{c^2} - \frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-III, C-IV, D-I
3. A-II, B-IV, C-I, D-III
4. A-IV, B-II, C-I, D-III

Options :

6119878673. 1
6119878674. 2
6119878675. 3
6119878676. 4

Question Number : 70 Question Id : 6119872228 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I file mode parameters		LIST-II Meaning	
A.	ios::ate	I.	Go to end of file on opening
B.	ios::in	II.	Open fails if the file already exists.
C.	ios::nocreate	III.	Open file for reading only
D.	ios::noreplace	IV.	Open fails if the file does not exist.

Choose the **correct** answer from the options given below:

1. A-III, B-IV, C-II, D-I
2. A-I, B-III, C-II, D-IV
3. A-II, B-IV, C-I, D-III
4. A-I, B-III, C-IV, D-II

Options :

- 6119878677. 1
- 6119878678. 2
- 6119878679. 3
- 6119878680. 4

Question Number : 70 Question Id : 6119872228 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I file mode parameters		LIST-II Meaning	
A.	ios::ate	I.	Go to end of file on opening
B.	ios::in	II.	Open fails if the file already exists.
C.	ios::nocreate	III.	Open file for reading only
D.	ios::noreplace	IV.	Open fails if the file does not exist.

Choose the **correct** answer from the options given below:

1. A-III, B-IV, C-II, D-I
2. A-I, B-III, C-II, D-IV
3. A-II, B-IV, C-I, D-III
4. A-I, B-III, C-IV, D-II

Options :

- 6119878677. 1
- 6119878678. 2
- 6119878679. 3
- 6119878680. 4

Question Number : 71 Question Id : 6119872229 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Specialization process does not allow

1. to define a set a sub classes of an entity type.
2. to establish additional specific attributes with each subclass.
3. to define a generalized entity type from the given entity types.
4. to establish additional specific relationship types between each subclass and other entity types or other subclasses.

Options :

- 6119878681. 1
- 6119878682. 2
- 6119878683. 3
- 6119878684. 4

Question Number : 71 Question Id : 6119872229 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Specialization process does not allow

1. to define a set a sub classes of an entity type.
2. to establish additional specific attributes with each subclass.
3. to define a generalized entity type from the given entity types.
4. to establish additional specific relationship types between each subclass and other entity types or other subclasses.

Options :

- 6119878681. 1
- 6119878682. 2
- 6119878683. 3
- 6119878684. 4

Question Number : 72 Question Id : 6119872230 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

If a transaction t_a holds a lock on some data item d in shared and intention-exclusive (SIX) mode, then which of the following is true for another transaction t_b ?

1. t_b can lock d in shared (S) mode
2. t_b can lock d in exclusive (X) mode
3. t_b can lock d in intention-exclusive (IX) mode
4. t_b can lock d in intention-shared (IS) mode

Options :

- 6119878685. 1
- 6119878686. 2
- 6119878687. 3
- 6119878688. 4

Question Number : 72 Question Id : 6119872230 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

If a transaction t_a holds a lock on some data item d in shared and intention-exclusive (SIX) mode, then which of the following is true for another transaction t_b ?

1. t_b can lock d in shared (S) mode
2. t_b can lock d in exclusive (X) mode
3. t_b can lock d in intention-exclusive (IX) mode
4. t_b can lock d in intention-shared (IS) mode

Options :

- 6119878685. 1
- 6119878686. 2
- 6119878687. 3
- 6119878688. 4

Question Number : 73 Question Id : 6119872231 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: OLAP systems are optimized for complex queries and analysis.

Reason R: OLTP systems are designed for transactions processing with large read-only queries.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 6119878689. 1
- 6119878690. 2
- 6119878691. 3
- 6119878692. 4

Question Number : 73 Question Id : 6119872231 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: OLAP systems are optimized for complex queries and analysis.

Reason R: OLTP systems are designed for transactions processing with large read-only queries.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 6119878689. 1
- 6119878690. 2
- 6119878691. 3
- 6119878692. 4

Question Number : 74 Question Id : 6119872232 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following steps of the Map reduce framework

- A. Input Splitting
- B. Reducing
- C. Mapping
- D. Shuffling & Sorting

Choose the *correct* answer from the options given below:

1. D, A, C, B
2. B, C, A, D
3. A, C, D, B
4. C, B, D, A

Options :

- 6119878693. 1
- 6119878694. 2
- 6119878695. 3
- 6119878696. 4

Question Number : 74 Question Id : 6119872232 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following steps of the Map reduce framework

- A. Input Splitting
- B. Reducing
- C. Mapping
- D. Shuffling & Sorting

Choose the **correct** answer from the options given below:

- 1. D, A, C, B
- 2. B, C, A, D
- 3. A, C, D, B
- 4. C, B, D, A

Options :

- 6119878693. 1
- 6119878694. 2
- 6119878695. 3
- 6119878696. 4

Question Number : 75 Question Id : 6119872233 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

In transactions, a write-item (X) command includes the following steps. Arrange the following steps in correct sequence.

- A. Copy item X from the program variable named X into its correct location in the buffer.
- B. Store the updated block from the buffer back to disk.
- C. Find the address of the disk block that contains item.
- D. Copy that disk block into a buffer in main memory.

Choose the **correct** answer from the options given below:

- 1. C, D, A, B
- 2. A, C, D, B
- 3. C, A, B, D
- 4. D, B, C, A

Options :

- 6119878697. 1
- 6119878698. 2
- 6119878699. 3
- 6119878700. 4

Question Number : 75 Question Id : 6119872233 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

In transactions, a write-item (X) command includes the following steps. Arrange the following steps in correct sequence.

- A. Copy item X from the program variable named X into its correct location in the buffer.
- B. Store the updated block from the buffer back to disk.
- C. Find the address of the disk block that contains item.
- D. Copy that disk block into a buffer in main memory.

Choose the **correct** answer from the options given below:

1. C, D, A, B
2. A, C, D, B
3. C, A, B, D
4. D, B, C, A

Options :

- 6119878697. 1
- 6119878698. 2
- 6119878699. 3
- 6119878700. 4

Question Number : 76 Question Id : 6119872234 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: HDFS follows a master-slave architecture with Name Node and Data Nodes.

Reason R: Name Node stores metadata, while Data Nodes store actual data blocks.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 6119878701. 1
- 6119878702. 2
- 6119878703. 3
- 6119878704. 4

Question Number : 76 Question Id : 6119872234 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: HDFS follows a master-slave architecture with Name Node and Data Nodes.

Reason R: Name Node stores metadata, while Data Nodes store actual data blocks.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 6119878701. 1
- 6119878702. 2
- 6119878703. 3
- 6119878704. 4

Question Number : 77 Question Id : 6119872235 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

In relation to Index structures for files which of the following are true?

- A. An index is an integral part of the data file.
- B. An index can be created in conjunction with virtually any primary record organization.
- C. An index cannot be created dynamically.
- D. An index can be used to enforce a key constraint on an attribute.
- E. An index can be created dynamically.

Choose the *correct* answer from the options given below:

1. A, B, C Only
2. B, C, D Only
3. B, D, E Only
4. A, C, E Only

Options :

- 6119878705. 1
- 6119878706. 2
- 6119878707. 3
- 6119878708. 4

Question Number : 77 Question Id : 6119872235 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

In relation to Index structures for files which of the following are true?

- A. An index is an integral part of the data file.
- B. An index can be created in conjunction with virtually any primary record organization.
- C. An index cannot be created dynamically.
- D. An index can be used to enforce a key constraint on an attribute.
- E. An index can be created dynamically.

Choose the **correct** answer from the options given below:

- 1. A, B, C Only
- 2. B, C, D Only
- 3. B, D, E Only
- 4. A, C, E Only

Options :

6119878705. 1

6119878706. 2

6119878707. 3

6119878708. 4

Question Number : 78 Question Id : 6119872236 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following statements are correct?

- A. The HAVING CLAUSE is an optional clause which tells Oracle to group rows based on distinct values that exist for specified columns.
- B. Unions can be used in subqueries.
- C. The intersect clause outputs only rows produced by both the queries intersected.
- D. The statement containing a subquery is called a parent statement.
- E. If a select statement is defined as a subquery, the innermost select statement gets executed first.

Choose the **correct** answer from the options given below:

- 1. A, B, C Only
- 2. C, D, E Only
- 3. B, C, E Only
- 4. A, B, D Only

Options :

6119878709. 1

6119878710. 2

6119878711. 3

6119878712. 4

Question Number : 78 Question Id : 6119872236 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following statements are correct?

- A. The HAVING CLAUSE is an optional clause which tells Oracle to group rows based on distinct values that exist for specified columns.
- B. Unions can be used in subqueries.
- C. The intersect clause outputs only rows produced by both the queries intersected.
- D. The statement containing a subquery is called a parent statement.
- E. If a select statement is defined as a subquery, the innermost select statement gets executed first.

Choose the **correct** answer from the options given below:

- 1. A, B, C Only
- 2. C, D, E Only
- 3. B, C, E Only
- 4. A, B, D Only

Options :

- 6119878709. 1
- 6119878710. 2
- 6119878711. 3
- 6119878712. 4

Question Number : 79 Question Id : 6119872237 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Class diagram	I.	subset
B.	Package diagram	II.	relationship
C.	Object diagram	III.	dependencies
D.	Component diagram	IV.	static structure

Choose the **correct** answer from the options given below:

- 1. A-II, B-III, C-IV, D-I
- 2. A-IV, B-I, C-III, D-II
- 3. A-IV, B-I, C-II, D-III
- 4. A-III, B-IV, C-II, D-I

Options :

- 6119878713. 1
- 6119878714. 2
- 6119878715. 3
- 6119878716. 4

Question Number : 79 Question Id : 6119872237 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Class diagram	I.	subset
B.	Package diagram	II.	relationship
C.	Object diagram	III.	dependencies
D.	Component diagram	IV.	static structure

Choose the **correct** answer from the options given below:

1. A-II, B-III, C-IV, D-I
2. A-IV, B-I, C-III, D-II
3. A-IV, B-I, C-II, D-III
4. A-III, B-IV, C-II, D-I

Options :

- 6119878713. 1
- 6119878714. 2
- 6119878715. 3
- 6119878716. 4

Question Number : 80 Question Id : 6119872238 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

What is a superblock object represents in virtual file system of Linux OS

1. an open file
2. an entire file system
3. individual directory entry
4. an individual file

Options :

- 6119878717. 1
- 6119878718. 2
- 6119878719. 3
- 6119878720. 4

Question Number : 80 Question Id : 6119872238 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

What is a superblock object represents in virtual file system of Linux OS

1. an open file
2. an entire file system
3. individual directory entry
4. an individual file

Options :

- 6119878717. 1
- 6119878718. 2
- 6119878719. 3
- 6119878720. 4

Question Number : 81 Question Id : 6119872239 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Consider the following set of processes assumed to have arrived at time 0 in order P_1, P_2, P_3, P_4 and P_5 with the length of CPU burst given in Milliseconds.

Process	Burst Time	Priority
P_1	10	3
P_2	1	1
P_3	2	4
P_4	1	5
P_5	5	2

What is the average waiting time (in milliseconds) using priority scheduling.

1. 8
2. 8.2
3. 8.3
4. 8.4

Options :

- 6119878721. 1
- 6119878722. 2
- 6119878723. 3
- 6119878724. 4

Question Number : 81 Question Id : 6119872239 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
 Consider the following set of processes assumed to have arrived at time 0 in order P₁, P₂, P₃, P₄ and P₅ with the length of CPU burst given in Milliseconds.

Process	Burst Time	Priority
P ₁	10	3
P ₂	1	1
P ₃	2	4
P ₄	1	5
P ₅	5	2

What is the average waiting time (in milliseconds) using priority scheduling.

1. 8
2. 8.2
3. 8.3
4. 8.4

Options :

- 6119878721. 1
- 6119878722. 2
- 6119878723. 3
- 6119878724. 4

Question Number : 82 Question Id : 6119872240 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Thrashing occurs when a process spends more time on paging than executing.

Reason R: It happens when the degree of multiprogramming is too low and frames are insufficient.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 6119878725. 1
- 6119878726. 2
- 6119878727. 3
- 6119878728. 4

Question Number : 82 Question Id : 6119872240 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Thrashing occurs when a process spends more time on paging than executing.

Reason R: It happens when the degree of multiprogramming is too low and frames are insufficient.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 6119878725. 1
- 6119878726. 2
- 6119878727. 3
- 6119878728. 4

Question Number : 83 Question Id : 6119872241 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider a disk queue with requests for I/O to blocks on cylinders 98, 183, 37, 122, 14, 124, 65, 67 in that order. If the disk head is initially at cylinder 53. Using SSTF scheduling, Arrange the following movement of head position in order of transversal.

- A. 67
- B. 37
- C. 65
- D. 98
- E. 14

Choose the *correct* answer from the options given below:

1. A, B, C, D, E
2. C, A, E, B, D
3. C, A, B, E, D
4. A, C, D, B, E

Options :

- 6119878729. 1
- 6119878730. 2
- 6119878731. 3
- 6119878732. 4

Question Number : 83 Question Id : 6119872241 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider a disk queue with requests for I/O to blocks on cylinders 98, 183, 37, 122, 14, 124, 65, 67 in that order. If the disk head is initially at cylinder 53. Using SSTF scheduling, Arrange the following movement of head position in order of transversal.

- A. 67
- B. 37
- C. 65
- D. 98
- E. 14

Choose the **correct** answer from the options given below:

- 1. A, B, C, D, E
- 2. C, A, E, B, D
- 3. C, A, B, E, D
- 4. A, C, D, B, E

Options :

- 6119878729. 1
- 6119878730. 2
- 6119878731. 3
- 6119878732. 4

Question Number : 84 Question Id : 6119872242 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is correct about Real time operating system.

- A. It permits creation of multiple processes within an application.
- B. It does not permit priorities to be assigned to processes.
- C. It permits a programmer to define interrupts and interrupt processing routines.
- D. It does not uses priority driver or deadline oriented scheduling.
- E. It provides fault tolerance and graceful degradation capabilities.

Choose the **correct** answer from the options given below:

- 1. A, B & D Only
- 2. B, C & D Only
- 3. A, C & E Only
- 4. B, D & E Only

Options :

- 6119878733. 1
- 6119878734. 2
- 6119878735. 3
- 6119878736. 4

Question Number : 84 Question Id : 6119872242 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is correct about Real time operating system.

- A. It permits creation of multiple processes within an application.
- B. It does not permit priorities to be assigned to processes.
- C. It permits a programmer to define interrupts and interrupt processing routines.
- D. It does not uses priority driver or deadline oriented scheduling.
- E. It provides fault tolerance and graceful degradation capabilities.

Choose the **correct** answer from the options given below:

- 1. A, B & D Only
- 2. B, C & D Only
- 3. A, C & E Only
- 4. B, D & E Only

Options :

6119878733. 1

6119878734. 2

6119878735. 3

6119878736. 4

Question Number : 85 Question Id : 6119872243 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the **LIST-I** with **LIST-II**

LIST-I		LIST-II	
A.	Short term scheduler	I.	Determine which process are added to the system for execution level place them in ready queue.
B.	Medium term scheduler	II.	Select which process should be executed next and allocate CPU time.
C.	Long term scheduler	III.	Manage the degree of multi programming by swapping processes between main memory and disk storage
D.	I/O Scheduler	IV.	Order the input/output requests from processes waiting for I/O operations.

Choose the **correct** answer from the options given below:

- 1. A-I, B-IV, C-II, D-III
- 2. A-III, B-II, C-I, D-IV
- 3. A-II, B-III, C-I, D-IV
- 4. A-I, B-II, C-III, D-IV

Options :

6119878737. 1

6119878738. 2

6119878739. 3

6119878740. 4

Question Number : 85 Question Id : 6119872243 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Short term scheduler	I.	Determine which process are added to the system for execution level place them in ready queue.
B.	Medium term scheduler	II.	Select which process should be executed next and allocate CPU time.
C.	Long term scheduler	III.	Manage the degree of multi programming by swapping processes between main memory and disk storage
D.	I/O Scheduler	IV.	Order the input/output requests from processes waiting for I/O operations.

Choose the **correct** answer from the options given below:

1. A-I, B-IV, C-II, D-III
2. A-III, B-II, C-I, D-IV
3. A-II, B-III, C-I, D-IV
4. A-I, B-II, C-III, D-IV

Options :

- 6119878737. 1
- 6119878738. 2
- 6119878739. 3
- 6119878740. 4

Question Number : 86 Question Id : 6119872244 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	System Call	I.	A process requests a function that is located in a different computer system
B.	Preemption	II.	A request that a program makes to the operating system.
C.	Real time application	III.	The forced deallocation of the CPU from a process.
D.	Remote procedure call	IV.	A program that responds to activities in an external within a maximum time determined by the external system.

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-III, C-IV, D-I
3. A-IV, B-III, C-II, D-I
4. A-II, B-III, C-I, D-IV

Options :

- 6119878741. 1
- 6119878742. 2
- 6119878743. 3
- 6119878744. 4

Question Number : 86 Question Id : 6119872244 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	System Call	I.	A process requests a function that is located in a different computer system
B.	Preemption	II.	A request that a program makes to the operating system.
C.	Real time application	III.	The forced deallocation of the CPU from a process.
D.	Remote procedure call	IV.	A program that responds to activities in an external within a maximum time determined by the external system.

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-III, C-IV, D-I
3. A-IV, B-III, C-II, D-I
4. A-II, B-III, C-I, D-IV

Options :

6119878741. 1

6119878742. 2

6119878743. 3

6119878744. 4

Question Number : 87 Question Id : 6119872245 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

The inorder and preorder traversal of binary tree are d, b, e, a, f, c, g and a, b, d, e, c, f, g respectively. The postorder traversal of the binary tree is

1. d, e, b, f, g, c, a
2. e, d, b, g, f, c, a
3. e, d, b, f, g, c, a
4. d, e, f, g, b, c, a

Options :

6119878745. 1

6119878746. 2

6119878747. 3

6119878748. 4

Question Number : 87 Question Id : 6119872245 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

The inorder and preorder traversal of binary tree are d, b, e, a, f, c, g and a, b, d, e, c, f, g respectively. The postorder traversal of the binary tree is

1. d, e, b, f, g, c, a
2. e, d, b, g, f, c, a
3. e, d, b, f, g, c, a
4. d, e, f, g, b, c, a

Options :

- 6119878745. 1
- 6119878746. 2
- 6119878747. 3
- 6119878748. 4

Question Number : 88 Question Id : 6119872246 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is correct solution of the given recurrence relation? $T(n) = 3T(n/4) + n \log n$

1. $\theta(n \log n)$
2. $\theta(n^2 \log n)$
3. $\theta(n (\log n)^2)$
4. $\theta(n \log \log n)$

Options :

- 6119878749. 1
- 6119878750. 2
- 6119878751. 3
- 6119878752. 4

Question Number : 88 Question Id : 6119872246 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is correct solution of the given recurrence relation? $T(n) = 3T(n/4) + n \log n$

1. $\theta(n \log n)$
2. $\theta(n^2 \log n)$
3. $\theta(n (\log n)^2)$
4. $\theta(n \log \log n)$

Options :

- 6119878749. 1
- 6119878750. 2
- 6119878751. 3
- 6119878752. 4

Question Number : 89 Question Id : 6119872247 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider B⁺ tree in which the maximum number of keys in a node is 5. What is the minimum number of keys in any non-root node?

1. 1
2. 2
3. 3
4. 4

Options :

- 6119878753. 1
- 6119878754. 2
- 6119878755. 3
- 6119878756. 4

Question Number : 89 Question Id : 6119872247 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider B⁺ tree in which the maximum number of keys in a node is 5. What is the minimum number of keys in any non-root node?

1. 1
2. 2
3. 3
4. 4

Options :

- 6119878753. 1
- 6119878754. 2
- 6119878755. 3
- 6119878756. 4

Question Number : 90 Question Id : 6119872248 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

How many number of comparison are required in worst case to find out second smallest element of n elements list?

1. $n + \lceil \log n \rceil - 1$
2. $n + \lceil \log n \rceil$
3. $\lceil \log n \rceil$
4. $n + \lceil \log n \rceil - 2$

Options :

- 6119878757. 1
- 6119878758. 2
- 6119878759. 3
- 6119878760. 4

Question Number : 90 Question Id : 6119872248 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

How many number of comparison are required in worst case to find out second smallest element of n elements list?

1. $n + \lceil \log n \rceil - 1$
2. $n + \lceil \log n \rceil$
3. $\lceil \log n \rceil$
4. $n + \lceil \log n \rceil - 2$

Options :

- 6119878757. 1
- 6119878758. 2
- 6119878759. 3
- 6119878760. 4

Question Number : 91 Question Id : 6119872249 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is correct order of increasing time complexity of algorithms

- A. Tower of Hanoi with n disk.
- B. Binary search given n sorted numbers.
- C. Heap sort given n numbers at the worst case.
- D. Addition of two $n \times n$ matrices.

Choose the **correct** answer from the options given below:

1. B, C, D, A
2. A, B, C, D
3. D, C, B, A
4. C, A, D, B

Options :

- 6119878761. 1
- 6119878762. 2
- 6119878763. 3
- 6119878764. 4

Question Number : 91 Question Id : 6119872249 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is correct order of increasing time complexity of algorithms

- A. Tower of Hanoi with n disk.
- B. Binary search given n sorted numbers.
- C. Heap sort given n numbers at the worst case.
- D. Addition of two $n \times n$ matrices.

Choose the **correct** answer from the options given below:

- 1. B, C, D, A
- 2. A, B, C, D
- 3. D, C, B, A
- 4. C, A, D, B

Options :

- 6119878761. 1
- 6119878762. 2
- 6119878763. 3
- 6119878764. 4

Question Number : 92 Question Id : 6119872250 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following algorithms from the most efficient to least efficient based on their time complexity.

- A. Kruskal's Algorithm
- B. Breadth first search Algorithm
- C. Bellman-Ford Algorithm
- D. Dijkstra's Algorithm
- E. Edmonds-Karp Algorithm.

Choose the **correct** answer from the options given below:

- 1. B, D, A, E, C
- 2. E, C, A, D, B
- 3. B, D, A, C, E
- 4. B, C, A, E, D

Options :

- 6119878765. 1
- 6119878766. 2
- 6119878767. 3
- 6119878768. 4

Question Number : 92 Question Id : 6119872250 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following algorithms from the most efficient to least efficient based on their time complexity.

- A. Kruskal's Algorithm
- B. Breadth first search Algorithm
- C. Bellman-Ford Algorithm
- D. Dijkstra's Algorithm
- E. Edmonds-Karp Algorithm.

Choose the **correct** answer from the options given below:

- 1. B, D, A, E, C
- 2. E, C, A, D, B
- 3. B, D, A, C, E
- 4. B, C, A, E, D

Options :

6119878765. 1

6119878766. 2

6119878767. 3

6119878768. 4

Question Number : 93 Question Id : 6119872251 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Kruskal's algorithm and Prim's algorithm always produce minimum spanning tree (MST).

Reason R: Every connected graph has a unique MST.

In the light of the above statements, choose the **most appropriate** answer from the options given below

- 1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
- 2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
- 3. **A** is correct but **R** is not correct
- 4. **A** is not correct but **R** is correct

Options :

6119878769. 1

6119878770. 2

6119878771. 3

6119878772. 4

Question Number : 93 Question Id : 6119872251 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Kruskal's algorithm and Prim's algorithm always produce minimum spanning tree (MST).

Reason R: Every connected graph has a unique MST.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

6119878769. 1

6119878770. 2

6119878771. 3

6119878772. 4

Question Number : 94 Question Id : 6119872252 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Depth first search can be used to perform a topological sort of a directed acyclic graph.

Reason R: A topological sort a directed acyclic graph $G=(V, E)$ is a linear ordering of its vertices such that if G contain an edge (u, v) then u appears before v in the ordering.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

6119878773. 1

6119878774. 2

6119878775. 3

6119878776. 4

Question Number : 94 Question Id : 6119872252 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Depth first search can be used to perform a topological sort of a directed acyclic graph.

Reason R: A topological sort a directed acyclic graph $G=(V, E)$ is a linear ordering of its vertices such that if G contain an edge (u, v) then u appears before v in the ordering.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 6119878773. 1
- 6119878774. 2
- 6119878775. 3
- 6119878776. 4

Question Number : 95 Question Id : 6119872253 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Which of the following statements about DFS are correct?

- A. It can detect cycles in a graph
- B. It can be used to find connected components.
- C. It works for both directed and undirected graph.
- D. Guarantees shortest path in unweighted graphs.

Choose the **correct** answer from the options given below:

1. A, B, C Only
2. A, B, C, D
3. C, D Only
4. B, C Only

Options :

- 6119878777. 1
- 6119878778. 2
- 6119878779. 3
- 6119878780. 4

Question Number : 95 Question Id : 6119872253 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following statements about DFS are correct?

- A. It can detect cycles in a graph
- B. It can be used to find connected components.
- C. It works for both directed and undirected graph.
- D. Guarantees shortest path in unweighted graphs.

Choose the **correct** answer from the options given below:

- 1. A, B, C Only
- 2. A, B, C, D
- 3. C, D Only
- 4. B, C Only

Options :

- 6119878777. 1
- 6119878778. 2
- 6119878779. 3
- 6119878780. 4

Question Number : 96 Question Id : 6119872254 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following are limitations of Greedy algorithms?

- A. They always fail for NP hard problem.
- B. They may not give the optimal solution for all problems.
- C. They are faster than dynamic programming in most cases
- D. They make local choices without looking ahead.

Choose the **correct** answer from the options given below:

- 1. A, C Only
- 2. B, C Only
- 3. A, B, C, D
- 4. B, D Only

Options :

- 6119878781. 1
- 6119878782. 2
- 6119878783. 3
- 6119878784. 4

Question Number : 96 Question Id : 6119872254 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following are limitations of Greedy algorithms?

- A. They always fail for NP hard problem.
- B. They may not give the optimal solution for all problems.
- C. They are faster than dynamic programming in most cases
- D. They make local choices without looking ahead.

Choose the **correct** answer from the options given below:

- 1. A, C Only
- 2. B, C Only
- 3. A, B, C, D
- 4. B, D Only

Options :

- 6119878781. 1
- 6119878782. 2
- 6119878783. 3
- 6119878784. 4

Question Number : 97 Question Id : 6119872255 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Dynamic programming	I.	Floyd Warshall Shortest path
B.	Greedy	II.	Huffman coding
C.	Back tracking	III.	Hamiltonian cycle problem
D.	Branch and bound	IV.	Travelling salesman (TSP) using lower bound

Choose the **correct** answer from the options given below:

- 1. A-II, B-III, C-IV, D-I
- 2. A-IV, B-III, C-II, D-I
- 3. A-I, B-II, C-III, D-IV
- 4. A-III, B-IV, C-I, D-II

Options :

- 6119878785. 1
- 6119878786. 2
- 6119878787. 3
- 6119878788. 4

Question Number : 97 Question Id : 6119872255 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Dynamic programming	I.	Floyd Warshall Shortest path
B.	Greedy	II.	Huffman coding
C.	Back tracking	III.	Hamiltonian cycle problem
D.	Branch and bound	IV.	Travelling salesman (TSP) using lower bound

Choose the **correct** answer from the options given below:

1. A-II, B-III, C-IV, D-I
2. A-IV, B-III, C-II, D-I
3. A-I, B-II, C-III, D-IV
4. A-III, B-IV, C-I, D-II

Options :

- 6119878785. 1
- 6119878786. 2
- 6119878787. 3
- 6119878788. 4

Question Number : 98 Question Id : 6119872256 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Dijkstra's Algorithm	I.	GPS route finding
B.	Huffman Coding	II.	Data compression
C.	KMP string matching	III.	Text editor search function
D.	Ford-Fulkerson	IV.	Network bandwidth optimization

Choose the **correct** answer from the options given below:

1. A-II, B-IV, C-I, D-III
2. A-I, B-II, C-III, D-IV
3. A-IV, B-II, C-III, D-I
4. A-IV, B-III, C-II, D-I

Options :

- 6119878789. 1
- 6119878790. 2
- 6119878791. 3
- 6119878792. 4

Question Number : 98 Question Id : 6119872256 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Dijkstra's Algorithm	I.	GPS route finding
B.	Huffman Coding	II.	Data compression
C.	KMP string matching	III.	Text editor search function
D.	Ford-Fulkerson	IV.	Network bandwidth optimization

Choose the **correct** answer from the options given below:

1. A-II, B-IV, C-I, D-III
2. A-I, B-II, C-III, D-IV
3. A-IV, B-II, C-III, D-I
4. A-IV, B-III, C-II, D-I

Options :

6119878789. 1
 6119878790. 2
 6119878791. 3
 6119878792. 4

Question Number : 99 Question Id : 6119872257 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Let P and Q be two regular expressions over Σ . If P does not contain ϵ , then the following equation in R namely,

$$R = Q + RP$$

has a unique solution given by,

1. $R = Q^* P^*$
2. $R = Q P^*$
3. $R = P Q^*$
4. $R = Q^* + P^* R$

Options :

6119878793. 1
 6119878794. 2
 6119878795. 3
 6119878796. 4

Question Number : 99 Question Id : 6119872257 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Let P and Q be two regular expressions over Σ . If P does not contain ϵ , then the following equation in R namely,

$$R = Q + RP$$

has a unique solution given by,

1. $R = Q^* P^*$
2. $R = Q P^*$
3. $R = P Q^*$
4. $R = Q^* + P^* R$

Options :

- 6119878793. 1
- 6119878794. 2
- 6119878795. 3
- 6119878796. 4

Question Number : 100 Question Id : 6119872258 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

A phase of a compiler which produce the symbol table is

1. Syntax analysis
2. Semantic analysis
3. Target code generation
4. Code optimization

Options :

- 6119878797. 1
- 6119878798. 2
- 6119878799. 3
- 6119878800. 4

Question Number : 100 Question Id : 6119872258 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

A phase of a compiler which produce the symbol table is

1. Syntax analysis
2. Semantic analysis
3. Target code generation
4. Code optimization

Options :

- 6119878797. 1
- 6119878798. 2
- 6119878799. 3
- 6119878800. 4

Question Number : 101 Question Id : 6119872259 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: If L is regular, then its compliment L' is necessarily regular.

Reason R: Complement of a language can be obtained by swapping final and non-final states in a DFA.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

6119878801. 1

6119878802. 2

6119878803. 3

6119878804. 4

Question Number : 101 Question Id : 6119872259 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: If L is regular, then its compliment L' is necessarily regular.

Reason R: Complement of a language can be obtained by swapping final and non-final states in a DFA.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

6119878801. 1

6119878802. 2

6119878803. 3

6119878804. 4

Question Number : 102 Question Id : 6119872260 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: $L = \{a^n b^n c^n : n \geq 0\}$ is accepted by a linear bounded automata.

Reason R: Linear bounded automata's recognize exactly the class of context sensitive languages.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 6119878805. 1
- 6119878806. 2
- 6119878807. 3
- 6119878808. 4

Question Number : 102 Question Id : 6119872260 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: $L = \{a^n b^n c^n : n \geq 0\}$ is accepted by a linear bounded automata.

Reason R: Linear bounded automata's recognize exactly the class of context sensitive languages.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 6119878805. 1
- 6119878806. 2
- 6119878807. 3
- 6119878808. 4

Question Number : 103 Question Id : 6119872261 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following in the order of execution while proving a Language is non-Regular using Pumping Lemma.

- A. Split in to xyz satisfying pumping Lemma conditions.
- B. Assume the language is regular.
- C. Choose a string of length \geq pumping length.
- D. Show contradiction when pumping y.

Choose the **correct** answer from the options given below:

- 1. B, C, D, A
- 2. C, D, A, B
- 3. B, C, A, D
- 4. A, B, C, D

Options :

- 6119878809. 1
- 6119878810. 2
- 6119878811. 3
- 6119878812. 4

Question Number : 103 Question Id : 6119872261 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following in the order of execution while proving a Language is non-Regular using Pumping Lemma.

- A. Split in to xyz satisfying pumping Lemma conditions.
- B. Assume the language is regular.
- C. Choose a string of length \geq pumping length.
- D. Show contradiction when pumping y.

Choose the **correct** answer from the options given below:

- 1. B, C, D, A
- 2. C, D, A, B
- 3. B, C, A, D
- 4. A, B, C, D

Options :

- 6119878809. 1
- 6119878810. 2
- 6119878811. 3
- 6119878812. 4

Question Number : 104 Question Id : 6119872262 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following tasks of Lexical Analyzer in correct sequence:

- A. Token Generation.
- B. Removal of comments/White space.
- C. Buffering and reading source characters.
- D. Return token stream to parser.

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. B, A, C, D
- 3. C, B, A, D
- 4. B, A, D, C

Options :

- 6119878813. 1
- 6119878814. 2
- 6119878815. 3
- 6119878816. 4

Question Number : 104 Question Id : 6119872262 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following tasks of Lexical Analyzer in correct sequence:

- A. Token Generation.
- B. Removal of comments/White space.
- C. Buffering and reading source characters.
- D. Return token stream to parser.

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. B, A, C, D
- 3. C, B, A, D
- 4. B, A, D, C

Options :

- 6119878813. 1
- 6119878814. 2
- 6119878815. 3
- 6119878816. 4

Question Number : 105 Question Id : 6119872263 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

If r_1 and r_2 are regular expressions, then which of the following are correct.

- A. $L(r_1 + r_2) = L(r_1) \cup L(r_2)$
- B. $L(r_1 \cdot r_2) = L(r_1) L(r_2)$
- C. $L((r_1)) = L(r_1)$
- D. $L(r_1^*) = (L(r_1))^*$

Choose the **correct** answer from the options given below:

- 1. A & B Only
- 2. B, C & D Only
- 3. A, C & D Only
- 4. A, B, C & D

Options :

- 6119878817. 1
- 6119878818. 2
- 6119878819. 3
- 6119878820. 4

Question Number : 105 Question Id : 6119872263 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

If r_1 and r_2 are regular expressions, then which of the following are correct.

- A. $L(r_1 + r_2) = L(r_1) \cup L(r_2)$
- B. $L(r_1 \cdot r_2) = L(r_1) L(r_2)$
- C. $L((r_1)) = L(r_1)$
- D. $L(r_1^*) = (L(r_1))^*$

Choose the **correct** answer from the options given below:

- 1. A & B Only
- 2. B, C & D Only
- 3. A, C & D Only
- 4. A, B, C & D

Options :

- 6119878817. 1
- 6119878818. 2
- 6119878819. 3
- 6119878820. 4

Question Number : 106 Question Id : 6119872264 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following languages cannot be accepted by push down automata?

- A. $L = \{ a^n b^n c^n : n \geq 0 \}$
- B. $L = \{ a^p : p \text{ is Prime} \}$
- C. $L = \{ wcw^R : w \in (a, b)^* \}$
- D. $L = \{ w \in (a, b)^* : n_a(w) = n_b(w) \}$
- E. $L = \{ a^n b^m c^{n+m} : n \geq 0, m \geq 0 \}$

Choose the **correct** answer from the options given below:

- 1. A, C & D Only
- 2. B, D & E Only
- 3. A & B Only
- 4. C & D Only

Options :

- 6119878821. 1
- 6119878822. 2
- 6119878823. 3
- 6119878824. 4

Question Number : 106 Question Id : 6119872264 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following languages cannot be accepted by push down automata?

- A. $L = \{ a^n b^n c^n : n \geq 0 \}$
- B. $L = \{ a^p : p \text{ is Prime} \}$
- C. $L = \{ wcw^R : w \in (a, b)^* \}$
- D. $L = \{ w \in (a, b)^* : n_a(w) = n_b(w) \}$
- E. $L = \{ a^n b^m c^{n+m} : n \geq 0, m \geq 0 \}$

Choose the **correct** answer from the options given below:

- 1. A, C & D Only
- 2. B, D & E Only
- 3. A & B Only
- 4. C & D Only

Options :

- 6119878821. 1
- 6119878822. 2
- 6119878823. 3
- 6119878824. 4

Question Number : 107 Question Id : 6119872265 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I		LIST-II	
Input		Compiler Phase	
A.	Syntax Tree	I.	Code Generator
B.	Character Stream	II.	Syntax Analyzer
C.	Intermediate Representation	III.	Semantic Analyzer
D.	Token Stream	IV.	Lexical Analyzer

Choose the **correct** answer from the options given below:

1. A-II, B-III, C-IV, D-I
2. A-III, B-IV, C-I, D-II
3. A-III, B-I, C-IV, D-II
4. A-I, B-IV, C-II, D-III

Options :

- 6119878825. 1
- 6119878826. 2
- 6119878827. 3
- 6119878828. 4

Question Number : 107 Question Id : 6119872265 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I		LIST-II	
Input		Compiler Phase	
A.	Syntax Tree	I.	Code Generator
B.	Character Stream	II.	Syntax Analyzer
C.	Intermediate Representation	III.	Semantic Analyzer
D.	Token Stream	IV.	Lexical Analyzer

Choose the **correct** answer from the options given below:

1. A-II, B-III, C-IV, D-I
2. A-III, B-IV, C-I, D-II
3. A-III, B-I, C-IV, D-II
4. A-I, B-IV, C-II, D-III

Options :

- 6119878825. 1
- 6119878826. 2
- 6119878827. 3
- 6119878828. 4

Question Number : 108 Question Id : 6119872266 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I Grammar		LIST-II All productions are of the form	
A.	Regular Grammar	I.	$A \rightarrow aX$, where $a \in T$ and $X \in V^*$
B.	Unrestricted Grammar	II.	$A \rightarrow xB$, $A \rightarrow x$ or $A \rightarrow Bx$, $A \rightarrow x$ where $A, B \in V$ and $x \in T^*$
C.	Chomsky Normal Form	III.	$x \rightarrow y$, where $x \in (VUT)^+$ and $y \in (VUT)^*$
D.	Greibach Normal Form	IV.	$A \rightarrow BC$ or $A \rightarrow a$, where A, B, C are in V and a is in T .

Choose the **correct** answer from the options given below:

1. A-II, B-III, C-I, D-IV
2. A-I, B-III, C-II, D-IV
3. A-II, B-III, C-IV, D-I
4. A-II, B-IV, C-I, D-III

Options :

6119878829. 1

6119878830. 2

6119878831. 3

6119878832. 4

Question Number : 108 Question Id : 6119872266 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I Grammar		LIST-II All productions are of the form	
A.	Regular Grammar	I.	$A \rightarrow aX$, where $a \in T$ and $X \in V^*$
B.	Unrestricted Grammar	II.	$A \rightarrow xB$, $A \rightarrow x$ or $A \rightarrow Bx$, $A \rightarrow x$ where $A, B \in V$ and $x \in T^*$
C.	Chomsky Normal Form	III.	$x \rightarrow y$, where $x \in (VUT)^+$ and $y \in (VUT)^*$
D.	Greibach Normal Form	IV.	$A \rightarrow BC$ or $A \rightarrow a$, where A, B, C are in V and a is in T .

Choose the **correct** answer from the options given below:

1. A-II, B-III, C-I, D-IV
2. A-I, B-III, C-II, D-IV
3. A-II, B-III, C-IV, D-I
4. A-II, B-IV, C-I, D-III

Options :

6119878829. 1

6119878830. 2

6119878831. 3

6119878832. 4

Question Number : 109 Question Id : 6119872267 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Dialog control is a function of the which layer

1. Network Layer
2. Transport Layer
3. Session Layer
4. Presentation Layer

Options :

- 6119878833. 1
- 6119878834. 2
- 6119878835. 3
- 6119878836. 4

Question Number : 109 Question Id : 6119872267 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Dialog control is a function of the which layer

1. Network Layer
2. Transport Layer
3. Session Layer
4. Presentation Layer

Options :

- 6119878833. 1
- 6119878834. 2
- 6119878835. 3
- 6119878836. 4

Question Number : 110 Question Id : 6119872268 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Assume a signal travels through a transmission medium and its power is reduced to one-half of means $P_2 = \frac{1}{2} P_1$. What is the power loss in attenuation?

1. -6 db
2. -3 db
3. -1.5 db
4. -1 db

Options :

- 6119878837. 1
- 6119878838. 2
- 6119878839. 3
- 6119878840. 4

Question Number : 110 Question Id : 6119872268 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Assume a signal travels through a transmission medium and its power is reduced to one-half of means $P_2 = \frac{1}{2} P_1$. What is the power loss in attenuation?

1. -6 db
2. -3 db
3. -1.5 db
4. -1 db

Options :

- 6119878837. 1
- 6119878838. 2
- 6119878839. 3
- 6119878840. 4

Question Number : 111 Question Id : 6119872269 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following statement are true for link state routing

- A. Link state Routing is suffer from count-to-infinity problem.
- B. Link state Routing uses flooding in the network to distribute link state packets.
- C. Each router creates its own link state packet.
- D. Every router has exactly the same link state database.
- E. Each router finds its own shortest paths to the other routers by using distance vector routing.

Choose the **correct** answer from the options given below:

1. A & E Only
2. B, C & D Only
3. A, B, C & D Only
4. A, B & E Only

Options :

- 6119878841. 1
- 6119878842. 2
- 6119878843. 3
- 6119878844. 4

Question Number : 111 Question Id : 6119872269 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following statement are true for link state routing

- A. Link state Routing is suffer from count-to-infinity problem.
- B. Link state Routing uses flooding in the network to distribute link state packets.
- C. Each router creates its own link state packet.
- D. Every router has exactly the same link state database.
- E. Each router finds its own shortest paths to the other routers by using distance vector routing.

Choose the **correct** answer from the options given below:

- 1. A & E Only
- 2. B, C & D Only
- 3. A, B, C & D Only
- 4. A, B & E Only

Options :

6119878841. 1

6119878842. 2

6119878843. 3

6119878844. 4

Question Number : 112 Question Id : 6119872270 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which statements are true for digital to digital Encoding schemes.

- A. Unipolar encoding uses one level of value.
- B. Unipolar encoded signal contains a direct current component(a component with zero frequency)
- C. In NRZ- L, the level of the signal is dependent upon the state of the bit.
- D. In NRZ-I, the signal is not inverted of a 1 is an encountered.
- E. RZ encoding scheme removes both DC components and problem of synchronization.

Choose the **correct** answer from the options given below:

- 1. A, B, C & E Only
- 2. A, C, D & E Only
- 3. B, C, D & E Only
- 4. A, B, D & E Only

Options :

6119878845. 1

6119878846. 2

6119878847. 3

6119878848. 4

Question Number : 112 Question Id : 6119872270 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which statements are true for digital to digital Encoding schemes.

- A. Unipolar encoding uses one level of value.
- B. Unipolar encoded signal contains a direct current component(a component with zero frequency)
- C. In NRZ- L, the level of the signal is dependent upon the state of the bit.
- D. In NRZ-I, the signal is not inverted of a 1 is an encountered.
- E. RZ encoding scheme removes both DC components and problem of synchronization.

Choose the **correct** answer from the options given below:

- 1. A, B, C & E Only
- 2. A, C, D & E Only
- 3. B, C, D & E Only
- 4. A, B, D & E Only

Options :

6119878845. 1

6119878846. 2

6119878847. 3

6119878848. 4

Question Number : 113 Question Id : 6119872271 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Asymmetric key cryptography is significant slower than symmetric key cryptography.

Reason R: Asymmetric key cryptography is based on complex mathematical structure to secure data.

In the light of the above statements, choose the **most appropriate** answer from the options given below

- 1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
- 2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
- 3. **A** is correct but **R** is not correct
- 4. **A** is not correct but **R** is correct

Options :

6119878849. 1

6119878850. 2

6119878851. 3

6119878852. 4

Question Number : 113 Question Id : 6119872271 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Asymmetric key cryptography is significant slower than symmetric key cryptography.

Reason R: Asymmetric key cryptography is based on complex mathematical structure to secure data.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

6119878849. 1

6119878850. 2

6119878851. 3

6119878852. 4

Question Number : 114 Question Id : 6119872272 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: 1-persistent CSMA provides low delay under low load conditions.

Reason R: When the channel is free, stations transmits immediately without any random delay, ensuring quick access and minimal delay.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

6119878853. 1

6119878854. 2

6119878855. 3

6119878856. 4

Question Number : 114 Question Id : 6119872272 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: 1-persistent CSMA provides low delay under low load conditions.

Reason R: When the channel is free, stations transmits immediately without any random delay, ensuring quick access and minimal delay.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

- 6119878853. 1
- 6119878854. 2
- 6119878855. 3
- 6119878856. 4

Question Number : 115 Question Id : 6119872273 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Match the **LIST-I** with **LIST-II**

LIST-I		LIST-II	
A.	190.10.75.250	I.	Class E IP address
B.	230.41.10.20	II.	Class B IP address
C.	242.9.20.80	III.	Class A IP address
D.	127.10.125.230	IV.	Class D IP address

Choose the *correct* answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-I, C-IV, D-III
3. A-II, B-IV, C-I, D-III
4. A-III, B-I, C-II, D-IV

Options :

- 6119878857. 1
- 6119878858. 2
- 6119878859. 3
- 6119878860. 4

Question Number : 115 Question Id : 6119872273 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	190.10.75.250	I.	Class E IP address
B.	230.41.10.20	II.	Class B IP address
C.	242.9.20.80	III.	Class A IP address
D.	127.10.125.230	IV.	Class D IP address

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-I, C-IV, D-III
3. A-II, B-IV, C-I, D-III
4. A-III, B-I, C-II, D-IV

Options :

- 6119878857. 1
- 6119878858. 2
- 6119878859. 3
- 6119878860. 4

Question Number : 116 Question Id : 6119872274 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	SMTP	I.	Application layer
B.	BGP	II.	Transport layer
C.	TCP	III.	Data Link Layer
D.	PPP	IV.	Network Layer

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-I, C-IV, D-III
3. A-IV, B-II, C-III, D-I
4. A-I, B-IV, C-II, D-III

Options :

- 6119878861. 1
- 6119878862. 2
- 6119878863. 3
- 6119878864. 4

Question Number : 116 Question Id : 6119872274 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	SMTP	I.	Application layer
B.	BGP	II.	Transport layer
C.	TCP	III.	Data Link Layer
D.	PPP	IV.	Network Layer

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-I, C-IV, D-III
3. A-IV, B-II, C-III, D-I
4. A-I, B-IV, C-II, D-III

Options :

- 6119878861. 1
- 6119878862. 2
- 6119878863. 3
- 6119878864. 4

Question Number : 117 Question Id : 6119872275 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following interframe time interval in increasing order.

- A. PIFS(PCF interframe Spacing)
- B. DIFS(DCF interframe Spacing)
- C. SIFS(Short interframe Spacing)
- D. EIFS (Extended interframe Spacing)

Choose the **correct** answer from the options given below:

1. A, B, C, D
2. B, C, A, D
3. D, A, B, C
4. C, A, B, D

Options :

- 6119878865. 1
- 6119878866. 2
- 6119878867. 3
- 6119878868. 4

Question Number : 117 Question Id : 6119872275 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following interframe time interval in increasing order.

- A. PIFS(PCF interframe Spacing)
- B. DIFS(DCF interframe Spacing)
- C. SIFS(Short interframe Spacing)
- D. EIFS (Extended interframe Spacing)

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. B, C, A, D
- 3. D, A, B, C
- 4. C, A, B, D

Options :

- 6119878865. 1
- 6119878866. 2
- 6119878867. 3
- 6119878868. 4

Question Number : 118 Question Id : 6119872276 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following steps for Pulse Code Modulation (PCM).

- A. Sampling
- B. Low-Pass filter
- C. Encoding
- D. Quantization

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. B, C, D, A
- 3. B, A, D, C
- 4. D, C, B, A

Options :

- 6119878869. 1
- 6119878870. 2
- 6119878871. 3
- 6119878872. 4

Question Number : 118 Question Id : 6119872276 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following steps for Pulse Code Modulation (PCM).

- A. Sampling
- B. Low-Pass filter
- C. Encoding
- D. Quantization

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. B, C, D, A
- 3. B, A, D, C
- 4. D, C, B, A

Options :

- 6119878869. 1
- 6119878870. 2
- 6119878871. 3
- 6119878872. 4

Question Number : 119 Question Id : 6119872277 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which planning approach is used for environment with no observations?

- 1. Hierarchical planning
- 2. Reactive planning
- 3. Conformant planning
- 4. Contingency Planning

Options :

- 6119878873. 1
- 6119878874. 2
- 6119878875. 3
- 6119878876. 4

Question Number : 119 Question Id : 6119872277 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which planning approach is used for environment with no observations?

- 1. Hierarchical planning
- 2. Reactive planning
- 3. Conformant planning
- 4. Contingency Planning

Options :

- 6119878873. 1
- 6119878874. 2
- 6119878875. 3
- 6119878876. 4

Question Number : 120 Question Id : 6119872278 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which logic is designed to address the problem of referential opacity in propositional attitudes?

1. Regular Logic
2. Modal Logic
3. First-order logic
4. Predicate logic

Options :

- 6119878877. 1
- 6119878878. 2
- 6119878879. 3
- 6119878880. 4

Question Number : 120 Question Id : 6119872278 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which logic is designed to address the problem of referential opacity in propositional attitudes?

1. Regular Logic
2. Modal Logic
3. First-order logic
4. Predicate logic

Options :

- 6119878877. 1
- 6119878878. 2
- 6119878879. 3
- 6119878880. 4

Question Number : 121 Question Id : 6119872279 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

What is the space complexity of the CYK algorithm for the P table, where n is the number of words in the sentence and m is the number of non terminal symbols in the grammar?

1. $O(n^3)$
2. $O(nm^2)$
3. $O(n^2m)$
4. $O(n^2m^2)$

Options :

- 6119878881. 1
- 6119878882. 2
- 6119878883. 3
- 6119878884. 4

Question Number : 121 Question Id : 6119872279 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

What is the space complexity of the CYK algorithm for the P table, where n is the number of words in the sentence and m is the number of non terminal symbols in the grammar?

1. $O(n^3)$
2. $O(nm^2)$
3. $O(n^2m)$
4. $O(n^2m^2)$

Options :

- 6119878881. 1
- 6119878882. 2
- 6119878883. 3
- 6119878884. 4

Question Number : 122 Question Id : 6119872280 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

In artificial intelligence, the term "Turing Test" is primarily associated with:

1. Testing neural network convergence
2. Measuring computational efficiency of algorithm
3. Evaluating machine ability to exhibit human-like behavior.
4. Verifying correctness of AI search algorithm

Options :

- 6119878885. 1
- 6119878886. 2
- 6119878887. 3
- 6119878888. 4

Question Number : 122 Question Id : 6119872280 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

In artificial intelligence, the term "Turing Test" is primarily associated with:

1. Testing neural network convergence
2. Measuring computational efficiency of algorithm
3. Evaluating machine ability to exhibit human-like behavior.
4. Verifying correctness of AI search algorithm

Options :

- 6119878885. 1
- 6119878886. 2
- 6119878887. 3
- 6119878888. 4

Question Number : 123 Question Id : 6119872281 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Unsupervised learning algorithms are used for tasks like data summarization and exploratory data analysis.

Reason R: Unsupervised learning requires labelled dataset to find relationships and patterns in data.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

6119878889. 1

6119878890. 2

6119878891. 3

6119878892. 4

Question Number : 123 Question Id : 6119872281 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Unsupervised learning algorithms are used for tasks like data summarization and exploratory data analysis.

Reason R: Unsupervised learning requires labelled dataset to find relationships and patterns in data.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

6119878889. 1

6119878890. 2

6119878891. 3

6119878892. 4

Question Number : 124 Question Id : 6119872282 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider the following statements about reinforcement learning.

- A. The adaptive dynamic programming agent leaves the transition model between states utilizes to solve the corresponding Markov decision process using dynamic programming.
- B. Temporal difference needs a transition model to perform its updates.
- C. The prioritized sweeping heuristic focuses on adjusting states with successors that have undergone significant changes in utility estimates.
- D. The approach of modified policy iteration involves adopting a simplified value utility estimates following each change to the learned model.

Choose the **correct** answer from the options given below:

- 1. A, B & C Only
- 2. A, B & D Only
- 3. A, C & D Only
- 4. B, C & D Only

Options :

- 6119878893. 1
- 6119878894. 2
- 6119878895. 3
- 6119878896. 4

Question Number : 124 Question Id : 6119872282 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider the following statements about reinforcement learning.

- A. The adaptive dynamic programming agent leaves the transition model between states utilizes to solve the corresponding Markov decision process using dynamic programming.
- B. Temporal difference needs a transition model to perform its updates.
- C. The prioritized sweeping heuristic focuses on adjusting states with successors that have undergone significant changes in utility estimates.
- D. The approach of modified policy iteration involves adopting a simplified value utility estimates following each change to the learned model.

Choose the **correct** answer from the options given below:

- 1. A, B & C Only
- 2. A, B & D Only
- 3. A, C & D Only
- 4. B, C & D Only

Options :

- 6119878893. 1
- 6119878894. 2
- 6119878895. 3
- 6119878896. 4

Question Number : 125 Question Id : 6119872283 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

In a multi-agent system(MAS), what are the key characteristics of individual agents?

- A. They must be identical in their capabilities and goals.
- B. They are autonomous and act independently.
- C. They interact with each other and their environment.
- D. They are controlled by a single, centralized authority at all times.

Choose the **correct** answer from the options given below:

- 1. A, B & C Only
- 2. B, C & D Only
- 3. B & D Only
- 4. A & D Only

Options :

- 6119878897. 1
- 6119878898. 2
- 6119878899. 3
- 6119878900. 4

Question Number : 125 Question Id : 6119872283 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

In a multi-agent system(MAS), what are the key characteristics of individual agents?

- A. They must be identical in their capabilities and goals.
- B. They are autonomous and act independently.
- C. They interact with each other and their environment.
- D. They are controlled by a single, centralized authority at all times.

Choose the **correct** answer from the options given below:

- 1. A, B & C Only
- 2. B, C & D Only
- 3. B & D Only
- 4. A & D Only

Options :

- 6119878897. 1
- 6119878898. 2
- 6119878899. 3
- 6119878900. 4

Question Number : 126 Question Id : 6119872284 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following sequence related to FASTUS system:

- A. Basic-group handling
- B. Structure merging
- C. Tokenization
- D. Complex phrase handling
- E. Complex word handling

Choose the **correct** answer from the options given below:

- 1. C, A, D, E, B
- 2. E, A, C, D, B
- 3. C, E, A, D, B
- 4. C, E, D, A, B

Options :

6119878901. 1

6119878902. 2

6119878903. 3

6119878904. 4

Question Number : 126 Question Id : 6119872284 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following sequence related to FASTUS system:

- A. Basic-group handling
- B. Structure merging
- C. Tokenization
- D. Complex phrase handling
- E. Complex word handling

Choose the **correct** answer from the options given below:

- 1. C, A, D, E, B
- 2. E, A, C, D, B
- 3. C, E, A, D, B
- 4. C, E, D, A, B

Options :

6119878901. 1

6119878902. 2

6119878903. 3

6119878904. 4

Question Number : 127 Question Id : 6119872285 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following steps of Natural Language Processing pipeline in correct order

- A. Syntax Analysis
- B. Morphological Analysis
- C. Pragmatics
- D. Semantic analysis.

Choose the **correct** answer from the options given below:

1. A, B, C, D
2. B, A, D, C
3. B, D, A, C
4. A, C, B, D

Options :

- 6119878905. 1
- 6119878906. 2
- 6119878907. 3
- 6119878908. 4

Question Number : 127 Question Id : 6119872285 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following steps of Natural Language Processing pipeline in correct order

- A. Syntax Analysis
- B. Morphological Analysis
- C. Pragmatics
- D. Semantic analysis.

Choose the **correct** answer from the options given below:

1. A, B, C, D
2. B, A, D, C
3. B, D, A, C
4. A, C, B, D

Options :

- 6119878905. 1
- 6119878906. 2
- 6119878907. 3
- 6119878908. 4

Question Number : 128 Question Id : 6119872286 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Neural networks are capable of approximating any continuous function to an arbitrary degree of accuracy.

Reason R: This is explained by the universal approximation theorem.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

6119878909. 1

6119878910. 2

6119878911. 3

6119878912. 4

Question Number : 128 Question Id : 6119872286 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Neural networks are capable of approximating any continuous function to an arbitrary degree of accuracy.

Reason R: This is explained by the universal approximation theorem.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

6119878909. 1

6119878910. 2

6119878911. 3

6119878912. 4

Question Number : 129 Question Id : 6119872287 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: In supervised learning, the model is trained using labelled data.

Reason R: Supervised learning algorithms find patterns in data to predict outcomes without any prior knowledge of the correct output.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

6119878913. 1

6119878914. 2

6119878915. 3

6119878916. 4

Question Number : 129 Question Id : 6119872287 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: In supervised learning, the model is trained using labelled data.

Reason R: Supervised learning algorithms find patterns in data to predict outcomes without any prior knowledge of the correct output.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

6119878913. 1

6119878914. 2

6119878915. 3

6119878916. 4

Question Number : 130 Question Id : 6119872288 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Expert systems	I.	Medical Diagnosis
B.	NLP	II.	Text Summarization
C.	Computer Vision	III.	Image Classification
D.	ML	IV.	Predictive Analysis

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-I, C-III, D-IV
3. A-II, B-III, C-I, D-IV
4. A-III, B-II, C-I, D-IV

Options :

- 6119878917. 1
- 6119878918. 2
- 6119878919. 3
- 6119878920. 4

Question Number : 130 Question Id : 6119872288 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Expert systems	I.	Medical Diagnosis
B.	NLP	II.	Text Summarization
C.	Computer Vision	III.	Image Classification
D.	ML	IV.	Predictive Analysis

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-I, C-III, D-IV
3. A-II, B-III, C-I, D-IV
4. A-III, B-II, C-I, D-IV

Options :

- 6119878917. 1
- 6119878918. 2
- 6119878919. 3
- 6119878920. 4

Question Number : 131 Question Id : 6119872289 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Definite clause	I.	Forward Chaining
B.	Horn Clause	II.	At most one is positive literals
C.	Goal Clause	III.	No positive literals
D.	Inference with Horn clause	IV.	Exactly one is positive literals

Choose the **correct** answer from the options given below:

1. A-II, B-IV, C-III, D-I
2. A-IV, B-II, C-I, D-III
3. A-II, B-III, C-I, D-IV
4. A-IV, B-II, C-III, D-I

Options :

- 6119878921. 1
- 6119878922. 2
- 6119878923. 3
- 6119878924. 4

Question Number : 131 Question Id : 6119872289 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Definite clause	I.	Forward Chaining
B.	Horn Clause	II.	At most one is positive literals
C.	Goal Clause	III.	No positive literals
D.	Inference with Horn clause	IV.	Exactly one is positive literals

Choose the **correct** answer from the options given below:

1. A-II, B-IV, C-III, D-I
2. A-IV, B-II, C-I, D-III
3. A-II, B-III, C-I, D-IV
4. A-IV, B-II, C-III, D-I

Options :

- 6119878921. 1
- 6119878922. 2
- 6119878923. 3
- 6119878924. 4

Question Number : 132 Question Id : 6119872290 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following events in correct order when an interrupt occurs during instruction execution.

- A. Save program counter (PC) and status register.
- B. Fetch interrupt vector from memory.
- C. Execute the interrupted instruction completely.
- D. Transfer control to interrupt service routine (ISR)
- E. Restore PC and register after ISR

Choose the **correct** answer from the options given below:

- 1. A, B, C, D, E
- 2. E, D, C, B, A
- 3. C, A, B, D, E
- 4. A, B, E, C, D

Options :

- 6119878925. 1
- 6119878926. 2
- 6119878927. 3
- 6119878928. 4

Question Number : 132 Question Id : 6119872290 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following events in correct order when an interrupt occurs during instruction execution.

- A. Save program counter (PC) and status register.
- B. Fetch interrupt vector from memory.
- C. Execute the interrupted instruction completely.
- D. Transfer control to interrupt service routine (ISR)
- E. Restore PC and register after ISR

Choose the **correct** answer from the options given below:

- 1. A, B, C, D, E
- 2. E, D, C, B, A
- 3. C, A, B, D, E
- 4. A, B, E, C, D

Options :

- 6119878925. 1
- 6119878926. 2
- 6119878927. 3
- 6119878928. 4

Question Number : 133 Question Id : 6119872291 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following are characteristics of RISC architecture:

- A. Large instruction set with many addressing modes.
- B. Fixed instruction length.
- C. Emphasis on software rather than hardware.
- D. Simple instruction that execute in one cycle.

Choose the **correct** answer from the options given below:

- 1. A, B Only
- 2. B, C, D Only
- 3. A, C, D only
- 4. A, B, C, D

Options :

- 6119878929. 1
- 6119878930. 2
- 6119878931. 3
- 6119878932. 4

Question Number : 133 Question Id : 6119872291 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following are characteristics of RISC architecture:

- A. Large instruction set with many addressing modes.
- B. Fixed instruction length.
- C. Emphasis on software rather than hardware.
- D. Simple instruction that execute in one cycle.

Choose the **correct** answer from the options given below:

- 1. A, B Only
- 2. B, C, D Only
- 3. A, C, D only
- 4. A, B, C, D

Options :

- 6119878929. 1
- 6119878930. 2
- 6119878931. 3
- 6119878932. 4

Question Number : 134 Question Id : 6119872292 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Address resolution protocol	I.	Map physical address to IP address
B.	Reverse address resolution protocol	II.	Used by host and router to send notification of datagram problem back to the sender.
C.	Internet control message protocol	III.	Help a multi-cast router identify host in a LAN
D.	Internet Group message protocol	IV.	Map IP address to physical address.

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-I, C-IV, D-III
3. A-IV, B-II, C-III, D-I
4. A-IV, B-I, C-II, D-III

Options :

- 6119878933. 1
- 6119878934. 2
- 6119878935. 3
- 6119878936. 4

Question Number : 134 Question Id : 6119872292 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Address resolution protocol	I.	Map physical address to IP address
B.	Reverse address resolution protocol	II.	Used by host and router to send notification of datagram problem back to the sender.
C.	Internet control message protocol	III.	Help a multi-cast router identify host in a LAN
D.	Internet Group message protocol	IV.	Map IP address to physical address.

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-I, C-IV, D-III
3. A-IV, B-II, C-III, D-I
4. A-IV, B-I, C-II, D-III

Options :

- 6119878933. 1
- 6119878934. 2
- 6119878935. 3
- 6119878936. 4

Question Number : 135 Question Id : 6119872293 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Instruction pipelining improves CPU throughput.

Reason R: Pipelining decreases the execution time of each individual instruction.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

6119878937. 1

6119878938. 2

6119878939. 3

6119878940. 4

Question Number : 135 Question Id : 6119872293 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Instruction pipelining improves CPU throughput.

Reason R: Pipelining decreases the execution time of each individual instruction.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

6119878937. 1

6119878938. 2

6119878939. 3

6119878940. 4

Question Number : 136 Question Id : 6119872294 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following WebApp design layers from top to bottom:

- A. Navigation design
- B. Aesthetic Design
- C. Interface Design
- D. Content Design
- E. Performance Design

Choose the **correct** answer from the options given below:

1. C, B, D, A, E
2. C, B, D, E, A
3. C, D, B, A, E
4. C, D, A, B, E

Options :

6119878941. 1

6119878942. 2

6119878943. 3

6119878944. 4

Question Number : 136 Question Id : 6119872294 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange the following WebApp design layers from top to bottom:

- A. Navigation design
- B. Aesthetic Design
- C. Interface Design
- D. Content Design
- E. Performance Design

Choose the **correct** answer from the options given below:

1. C, B, D, A, E
2. C, B, D, E, A
3. C, D, B, A, E
4. C, D, A, B, E

Options :

6119878941. 1

6119878942. 2

6119878943. 3

6119878944. 4

Question Number : 137 Question Id : 6119872295 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Higher cyclomatic complexity indicates a more complex program.

Reason R: It is calculated based on the number of independent execution path in the program.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

6119878945. 1

6119878946. 2

6119878947. 3

6119878948. 4

Question Number : 137 Question Id : 6119872295 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Higher cyclomatic complexity indicates a more complex program.

Reason R: It is calculated based on the number of independent execution path in the program.

In the light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

6119878945. 1

6119878946. 2

6119878947. 3

6119878948. 4

Question Number : 138 Question Id : 6119872296 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following statements are correct regarding task elaboration in interface design.

- A. Alpha testing is done at the developer's site in a controlled environment.
- B. Beta testing is done at the end-user site with developer presence.
- C. Acceptance testing may be very formal and last for weeks.
- D. Alpha testing always replaces Beta testing.

Choose the **correct** answer from the options given below:

- 1. A, B, C Only
- 2. A, B, D Only
- 3. B, C, D Only
- 4. A, B, C, D

Options :

- 6119878949. 1
- 6119878950. 2
- 6119878951. 3
- 6119878952. 4

Question Number : 138 Question Id : 6119872296 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following statements are correct regarding task elaboration in interface design.

- A. Alpha testing is done at the developer's site in a controlled environment.
- B. Beta testing is done at the end-user site with developer presence.
- C. Acceptance testing may be very formal and last for weeks.
- D. Alpha testing always replaces Beta testing.

Choose the **correct** answer from the options given below:

- 1. A, B, C Only
- 2. A, B, D Only
- 3. B, C, D Only
- 4. A, B, C, D

Options :

- 6119878949. 1
- 6119878950. 2
- 6119878951. 3
- 6119878952. 4

Question Number : 139 Question Id : 6119872297 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Content coupling	I.	Modifies internal data of another component
B.	Control Coupling	II.	Pass control flag to influence logic
C.	Stamp Coupling	III.	Uses entire structure/class as argument
D.	Data Coupling	IV.	Passes long list of data arguments.

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-IV, D-III
2. A-II, B-IV, C-I, D-III
3. A-I, B-III, C-IV, D-II
4. A-I, B-II, C-III, D-IV

Options :

- 6119878953. 1
- 6119878954. 2
- 6119878955. 3
- 6119878956. 4

Question Number : 139 Question Id : 6119872297 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Content coupling	I.	Modifies internal data of another component
B.	Control Coupling	II.	Pass control flag to influence logic
C.	Stamp Coupling	III.	Uses entire structure/class as argument
D.	Data Coupling	IV.	Passes long list of data arguments.

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-IV, D-III
2. A-II, B-IV, C-I, D-III
3. A-I, B-III, C-IV, D-II
4. A-I, B-II, C-III, D-IV

Options :

- 6119878953. 1
- 6119878954. 2
- 6119878955. 3
- 6119878956. 4

Question Number : 140 Question Id : 6119872298 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	V-Model	I.	Trigger transition
B.	Incremental process model	II.	Classic life cycle
C.	Spiral Model	III.	Risk Driven
D.	Concurrent Model	IV.	Core product

Choose the **correct** answer from the options given below:

1. A-IV, B-I, C-III, D-II
2. A-II, B-III, C-IV, D-I
3. A-II, B-I, C-III, D-IV
4. A-II, B-IV, C-III, D-I

Options :

- 6119878957. 1
- 6119878958. 2
- 6119878959. 3
- 6119878960. 4

Question Number : 140 Question Id : 6119872298 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	V-Model	I.	Trigger transition
B.	Incremental process model	II.	Classic life cycle
C.	Spiral Model	III.	Risk Driven
D.	Concurrent Model	IV.	Core product

Choose the **correct** answer from the options given below:

1. A-IV, B-I, C-III, D-II
2. A-II, B-III, C-IV, D-I
3. A-II, B-I, C-III, D-IV
4. A-II, B-IV, C-III, D-I

Options :

- 6119878957. 1
- 6119878958. 2
- 6119878959. 3
- 6119878960. 4

Sub-Section Number :

2

Sub-Section Id :

61198789

Question Shuffling Allowed :

No

Is Section Default? :

No

Question Id : 6119872299 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (141 to 145)

Question Label : Comprehension

A project is planned for an enterprise accounting system with an estimated size 60 KLOC. The organization applies Basic COCOMO(Semi-Detached Mode with parameters:)

$$\text{--Effort} = 3.0 (\text{KLOC})^{1.0}$$

$$\text{--Development time} = 2.5 (\text{Effort})^{1/2}$$

$$\text{--Average cost per person-month (pm)} = \$10,000$$

--A contingency margin of 10% effort is mandatory

-- The client demands a detailed schedule if staff is capped at 15 engineers.

Answer the following 5 questions based on this paragraph.

Sub questions

Question Number : 141 Question Id : 6119872300 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

What is the initial effort in Person-month (PM) before adding the contingency margin?

1. 240 PM
2. 260 PM
3. 180 PM
4. 200 PM

Options :

- 6119878961. 1
- 6119878962. 2
- 6119878963. 3
- 6119878964. 4

Question Number : 142 Question Id : 6119872301 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

What is the estimated development time in months?

1. 28 Months
2. 26 Months
3. 34 Months
4. 12 Months

Options :

- 6119878965. 1
- 6119878966. 2
- 6119878967. 3
- 6119878968. 4

Question Number : 143 Question Id : 6119872302 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

What is the implied average staffing level?

1. 8 Engineers
2. 5 Engineers
3. 10 Engineers
4. 12 Engineers

Options :

- 6119878969. 1
- 6119878970. 2
- 6119878971. 3
- 6119878972. 4

Question Number : 144 Question Id : 6119872303 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
If the staff is capped at 15 engineers what is the revised calendar duration?

1. 20.0 Months
2. 18.4 Months
3. 13.2 Months
4. 22.0 Months

Options :

- 6119878973. 1
- 6119878974. 2
- 6119878975. 3
- 6119878976. 4

Question Number : 145 Question Id : 6119872304 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Including 10% contingency margin what is the project cost?

1. \$ 1.80 M
2. \$ 1.98 M
3. \$ 2.4 M
4. \$ 2.36 M

Options :

- 6119878977. 1
- 6119878978. 2
- 6119878979. 3
- 6119878980. 4

Question Id : 6119872299 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (141 to 145)

Question Label : Comprehension

A project is planned for an enterprise accounting system with an estimated size 60 KLOC. The organization applies Basic COCOMO(Semi-Detached Mode with parameters:)

$$\text{--Effort} = 3.0 (\text{KLOC})^{1.0}$$

$$\text{--Development time} = 2.5 (\text{Effort})^{1/2}$$

$$\text{--Average cost per person-month (pm)} = \$10,000$$

--A contingency margin of 10% effort is mandatory

-- The client demands a detailed schedule if staff is capped at 15 engineers.

Answer the following 5 questions based on this paragraph.

Sub questions

Question Number : 141 Question Id : 6119872300 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

What is the initial effort in Person-month (PM) before adding the contingency margin?

1. 240 PM
2. 260 PM
3. 180 PM
4. 200 PM

Options :

- 6119878961. 1
- 6119878962. 2
- 6119878963. 3
- 6119878964. 4

Question Number : 142 Question Id : 6119872301 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

What is the estimated development time in months?

1. 28 Months
2. 26 Months
3. 34 Months
4. 12 Months

Options :

- 6119878965. 1
- 6119878966. 2
- 6119878967. 3
- 6119878968. 4

Question Number : 143 Question Id : 6119872302 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

What is the implied average staffing level?

1. 8 Engineers
2. 5 Engineers
3. 10 Engineers
4. 12 Engineers

Options :

- 6119878969. 1
- 6119878970. 2
- 6119878971. 3
- 6119878972. 4

Question Number : 144 Question Id : 6119872303 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
If the staff is capped at 15 engineers what is the revised calendar duration?

1. 20.0 Months
2. 18.4 Months
3. 13.2 Months
4. 22.0 Months

Options :

- 6119878973. 1
- 6119878974. 2
- 6119878975. 3
- 6119878976. 4

Question Number : 145 Question Id : 6119872304 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Including 10% contingency margin what is the project cost?

1. \$ 1.80 M
2. \$ 1.98 M
3. \$ 2.4 M
4. \$ 2.36 M

Options :

- 6119878977. 1
- 6119878978. 2
- 6119878979. 3
- 6119878980. 4

Sub-Section Number :

3

Sub-Section Id :

61198790

Question Shuffling Allowed :

No

Is Section Default? :

No

Question Id : 6119872305 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (146 to 150)

Question Label : Comprehension

A system transfer data blocks of 2000 bytes with programmed I/O, each byte transfer takes 6 CPU cycles, with direct memory access (DMA), the block transfer takes 3000 Cycles total, with CPU setup overhead of 200 cycles. The CPU clock is 1 GHZ. Answer the following 5 questions based on this paragraph.

Sub questions

Question Number : 146 Question Id : 6119872306 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

How many CPU cycles are spent using programmed I/O?

1. 2000
2. 6000
3. 12000
4. 20000

Options :

- 6119878981. 1
- 6119878982. 2
- 6119878983. 3
- 6119878984. 4

Question Number : 147 Question Id : 6119872307 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

How many CPU cycles are spent with DMA?

1. 200 Cycles
2. 3000 Cycles
3. 3200 Cycles
4. 4000 Cycles

Options :

- 6119878985. 1
- 6119878986. 2
- 6119878987. 3
- 6119878988. 4

Question Number : 148 Question Id : 6119872308 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

How much CPU time is consumed by programmed I/O ?

1. 12 μ s
2. 20 μ s
3. 24 μ s
4. 30 μ s

Options :

- 6119878989. 1
- 6119878990. 2
- 6119878991. 3
- 6119878992. 4

Question Number : 149 Question Id : 6119872309 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
How much CPU time is consumed by DMA overhead?

1. 0.2 μ s
2. 2.0 μ s
3. 3.0 μ s
4. 12.0 μ s

Options :

- 6119878993. 1
- 6119878994. 2
- 6119878995. 3
- 6119878996. 4

Question Number : 150 Question Id : 6119872310 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Which is more CPU-efficient for large block transfer?

1. Programmed I/O
2. DMA
3. Both programmed I/O and DMA
4. Depends on block size

Options :

- 6119878997. 1
- 6119878998. 2
- 6119878999. 3
- 6119879000. 4

Question Id : 6119872305 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (146 to 150)

Question Label : Comprehension

A system transfer data blocks of 2000 bytes with programmed I/O, each byte transfer takes 6 CPU cycles, with direct memory access (DMA), the block transfer takes 3000 Cycles total, with CPU setup overhead of 200 cycles. The CPU clock is 1 GHZ. Answer the following 5 questions based on this paragraph.

Sub questions

Question Number : 146 Question Id : 6119872306 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

How many CPU cycles are spent using programmed I/O?

1. 2000
2. 6000
3. 12000
4. 20000

Options :

- 6119878981. 1
- 6119878982. 2
- 6119878983. 3
- 6119878984. 4

Question Number : 147 Question Id : 6119872307 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

How many CPU cycles are spent with DMA?

1. 200 Cycles
2. 3000 Cycles
3. 3200 Cycles
4. 4000 Cycles

Options :

- 6119878985. 1
- 6119878986. 2
- 6119878987. 3
- 6119878988. 4

Question Number : 148 Question Id : 6119872308 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

How much CPU time is consumed by programmed I/O ?

1. 12 μ s
2. 20 μ s
3. 24 μ s
4. 30 μ s

Options :

- 6119878989. 1
- 6119878990. 2
- 6119878991. 3
- 6119878992. 4

Question Number : 149 Question Id : 6119872309 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
How much CPU time is consumed by DMA overhead?

1. 0.2 μ s
2. 2.0 μ s
3. 3.0 μ s
4. 12.0 μ s

Options :

- 6119878993. 1
- 6119878994. 2
- 6119878995. 3
- 6119878996. 4

Question Number : 150 Question Id : 6119872310 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Which is more CPU-efficient for large block transfer?

1. Programmed I/O
2. DMA
3. Both programmed I/O and DMA
4. Depends on block size

Options :

- 6119878997. 1
- 6119878998. 2
- 6119878999. 3
- 6119879000. 4