

QUESTION PAPER Uchcha Madhyamic Computer Science [SHIFT - 1]	
Exam Date : 12/09/2023	Time : 10:00 AM - 12:30 PM
Subject Name : Computer Science	Subject Code : 226
Subject Question	
<div><div>Question 1</div><div>What is the simplified expression for the Boolean function <math>F(A, B, C, D) = \Sigma(0, 1, 2, 4, 5, 6, 8, 9, 10, 12, 13, 14)</math> using the K-map method?</div><div>Answer :</div><div><div>(A) <math>A'B'C'D' + A'B'C'D + A'BC'D + AB'C'D + ABCD</math></div><div>(B) <math>A'B'C'D' + A'BC'D + AB'C'D + ABC'D + ABCD</math></div><div>(C) <math>A'B'C'D' + A'BC'D + ABC'D + ABCD</math></div><div>(D) <math>A'B'C'D' + A'BC'D' + A'BCD + ABCD</math></div></div><div><div>Right Answer :</div><div><math>A'B'C'D' + A'B'C'D + A'BC'D + AB'C'D + ABCD</math></div></div></div>	<div><div>Question Id : 1</div><div>Option Id</div><div><div><input type="radio"/> 1001</div><div><input type="radio"/> 1002</div><div><input type="radio"/> 1003</div><div><input type="radio"/> 1004</div></div><div><div>Right Option Id : 1001</div></div></div>
<div><div>Question 2</div><div>In a PLA, what components are used to implement the combinational logic functions?</div><div>Answer :</div><div><div>(A) AND gates and OR gates</div><div>(B) NAND gates and XOR gates</div><div>(C) NOR gates and XNOR gates</div><div>(D) NOT gates and multiplexers</div></div><div><div>Right Answer :</div><div>AND gates and OR gates</div></div></div>	<div><div>Question Id : 55</div><div>Option Id</div><div><div><input type="radio"/> 55001</div><div><input type="radio"/> 55002</div><div><input type="radio"/> 55003</div><div><input type="radio"/> 55004</div></div><div><div>Right Option Id : 55001</div></div></div>
<div><div>Question 3</div><div>Which type of register is primarily used to temporarily hold data during arithmetic and logical operations in a microprocessor?</div><div>Answer :</div><div><div>(A) Shift register</div><div>(B) Parallel register</div><div>(C) Accumulator register</div><div>(D) Counter register</div></div><div><div>Right Answer :</div><div>Accumulator register</div></div></div>	<div><div>Question Id : 54</div><div>Option Id</div><div><div><input type="radio"/> 54001</div><div><input type="radio"/> 54002</div><div><input type="radio"/> 54003</div><div><input type="radio"/> 54004</div></div><div><div>Right Option Id : 54003</div></div></div>
<div><div>Question 4</div><div>Which logic family uses both depletion and enhancement mode MOSFETs for its operation?</div><div>Answer :</div><div><div>(A) TTL</div><div>(B) ECL</div><div>(C) PMOS</div><div>(D) CMOS</div></div><div><div>Right Answer :</div><div>CMOS</div></div></div>	<div><div>Question Id : 53</div><div>Option Id</div><div><div><input type="radio"/> 53001</div><div><input type="radio"/> 53002</div><div><input type="radio"/> 53003</div><div><input type="radio"/> 53004</div></div><div><div>Right Option Id : 53004</div></div></div>

Question 5

What is the primary difference between ROM and RAM?

Answer :

- (A) ROM is faster than RAM
- (B) ROM is volatile, while RAM is non-volatile
- (C) ROM is used for data storage, while RAM is used for program execution
- (D) ROM stores permanent data that cannot be changed, while RAM stores temporary data that can be read and written

Right Answer :

ROM stores permanent data that cannot be changed, while RAM stores temporary data that can be read and written

Question Id : 52

Option Id

- ☐ 52001
- ☐ 52002
- ☐ 52003
- ☐ 52004

Right Option Id : 52004

Question 6

Given a Boolean function  $F(A, B, C) = \Sigma(0, 1, 2, 3, 5)$ , what is the expression in SOP form?

Answer :

- (A)  $A'B' + AB' + AB + AC$
- (B)  $A + B + C$
- (C)  $AB' + C'$
- (D)  $A'B'C'$

Right Answer :

$A'B' + AB' + AB + AC$

Question Id : 51

Option Id

- ☐ 51001
- ☐ 51002
- ☐ 51003
- ☐ 51004

Right Option Id : 51001

Question 7

If the sum of two positive binary numbers is 11010 and there is a carry-out from the MSB, what should be done to obtain the correct result?

Answer :

- (A) Discard the carry
- (B) Add the carry to the least significant bit (LSB)
- (C) Add the carry to the most significant bit (MSB)
- (D) Subtract the carry from the MSB

Right Answer :

Add the carry to the least significant bit (LSB)

Question Id : 50

Option Id

- ☐ 50001
- ☐ 50002
- ☐ 50003
- ☐ 50004

Right Option Id : 50002

Question 8

In binary multiplication using the simple method, what is the first step after aligning the digits and preparing for multiplication?

Answer :

- (A) Multiply the least significant bit (LSB) by the multiplier
- (B) Multiply the most significant bit (MSB) by the multiplier
- (C) Multiply the least significant bit (LSB) by the multiplicand
- (D) Multiply the most significant bit (MSB) by the multiplicand

Right Answer :

Multiply the least significant bit (LSB) by the multiplier

Question Id : 49

Option Id

- ☐ 49001
- ☐ 49002
- ☐ 49003
- ☐ 49004

Right Option Id : 49001

Question 9

What is the relationship between the distance between parity bits and their error detection and correction capability in Hamming Code?

Question Id : 48

Answer :

- (A) Closer parity bits provide higher error correction capability
- (B) Closer parity bits provide lower error correction capability
- (C) Distance between parity bits has no impact on error correction capability
- (D) The position of parity bits is irrelevant in Hamming Code

Option Id

- ☐ 48001
- ☐ 48002
- ☐ 48003
- ☐ 48004

Right Answer :

Closer parity bits provide lower error correction capability

Right Option Id : 48002

Question 10

To convert a Gray Code to its binary equivalent, which technique is commonly used?

Answer :

- (A) Subtraction method
- (B) Addition method
- (C) Exclusive OR (XOR) operation
- (D) Division method

Option Id

- ☐ 47001
- ☐ 47002
- ☐ 47003
- ☐ 47004

Right Answer :

Exclusive OR (XOR) operation

Right Option Id : 47003

Question 11

Which component of an ideal microcomputer is responsible for temporarily holding data and instructions during processing?

Answer :

- (A) CPU
- (B) ALU
- (C) Memory
- (D) Output devices

Option Id

- ☐ 46001
- ☐ 46002
- ☐ 46003
- ☐ 46004

Right Answer :

Memory

Right Option Id : 46003

Question 12

How is the width of the data bus typically measured in a microcomputer system?

Answer :

- (A) In kilobytes (KB)
- (B) In megahertz (MHz)
- (C) In bits
- (D) In address lines

Option Id

- ☐ 45001
- ☐ 45002
- ☐ 45003
- ☐ 45004

Right Answer :

In bits

Right Option Id : 45003

Question 13

Microcontrollers find application in various fields. What is a typical application of microcontrollers in the automotive industry?

Answer :

- (A) Operating systems for computers
- (B) Entertainment systems in airplanes
- (C) Engine control in cars

Option Id

- ☐ 44001
- ☐ 44002

Question Id : 44

<div>(D) Weather forecasting systems</div> <div>Right Answer : Engine control in cars</div>	<div><div>44003</div><div>44004</div></div> <div>Right Option Id : 44003</div>
<div>Question 14</div> <div>Which data structure often results in a time-space tradeoff by using extra memory to speed up operations?</div> <div>Answer :</div> <div>(A) Arrays</div> <div>(B) Linked lists</div> <div>(C) Hash tables</div> <div>(D) Stacks</div> <div>Right Answer : Hash tables</div>	<div>Question Id : 43</div> <div>Option Id</div> <div><div>43001</div><div>43002</div><div>43003</div><div>43004</div></div> <div>Right Option Id : 43003</div>
<div>Question 15</div> <div>Which term refers to the strategy of optimizing an algorithm's use of resources, often by making sacrifices in one aspect for improvements in another?</div> <div>Answer :</div> <div>(A) Greedy algorithm</div> <div>(B) Divide and conquer</div> <div>(C) Dynamic programming</div> <div>(D) Tradeoff</div> <div>Right Answer : Tradeoff</div>	<div>Question Id : 42</div> <div>Option Id</div> <div><div>42001</div><div>42002</div><div>42003</div><div>42004</div></div> <div>Right Option Id : 42004</div>
<div>Question 16</div> <div>Conditional asymptotic notation allows for a more nuanced analysis of algorithm behavior under specific conditions. This is particularly useful when:</div> <div>Answer :</div> <div>(A) Analyzing algorithms with constant time complexity</div> <div>(B) The input size is fixed</div> <div>(C) The input data is random</div> <div>(D) Algorithm behavior varies based on certain input characteristics</div> <div>Right Answer : Algorithm behavior varies based on certain input characteristics</div>	<div>Question Id : 41</div> <div>Option Id</div> <div><div>41001</div><div>41002</div><div>41003</div><div>41004</div></div> <div>Right Option Id : 41004</div>
<div>Question 17</div> <div>.If an algorithm's behavior is bounded by "<math>o(f(n))</math> if <math>g(n)</math>", what notation does it become when the condition is removed?</div> <div>Answer :</div> <div>(A) <math>o(f(n))</math></div> <div>(B) <math>o(g(n))</math></div> <div>(C) <math>o(f(n) + g(n))</math></div> <div>(D) <math>o(f(n) * g(n))</math></div> <div>Right Answer : <math>o(f(n))</math></div>	<div>Question Id : 56</div> <div>Option Id</div> <div><div>56001</div><div>56002</div><div>56003</div><div>56004</div></div> <div>Right Option Id : 56001</div>

Question 18

The recurrence equation  $T(n) = T(n/2) + 1$  represents the time complexity of which algorithmic paradigm?

Answer :

- (A) Divide and Conquer
- (B) Greedy Algorithms
- (C) Dynamic Programming
- (D) Brute Force

Right Answer :

Divide and Conquer

Question Id : 57

Option Id

- ☐ 57001
- ☐ 57002
- ☐ 57003
- ☐ 57004

Right Option Id : 57001

Question 19

Divide and Conquer is an algorithmic paradigm that solves problems by:

Answer :

- (A) Iteratively solving subproblems
- (B) Recursively solving subproblems
- (C) Using heuristics to find solutions
- (D) Greedily combining solutions

Right Answer :

Recursively solving subproblems

Question Id : 58

Option Id

- ☐ 58001
- ☐ 58002
- ☐ 58003
- ☐ 58004

Right Option Id : 58002

Question 20

A threaded binary tree is a binary tree in which:

Answer :

- (A) Each node has two children
- (B) Each node has at most one child
- (C) Each node is connected to its parent
- (D) Each node has a thread connecting it to its predecessor or successor

Right Answer :

Each node has a thread connecting it to its predecessor or successor

Question Id : 67

Option Id

- ☐ 67001
- ☐ 67002
- ☐ 67003
- ☐ 67004

Right Option Id : 67004

Question 21

Which traversal algorithm is typically implemented using a stack data structure?

Answer :

- (A) DFS
- (B) BFS
- (C) Both DFS and BFS
- (D) Neither DFS nor BFS

Right Answer :

DFS

Question Id : 73

Option Id

- ☐ 73001
- ☐ 73002
- ☐ 73003
- ☐ 73004

Right Option Id : 73001

Question 22

In a directed graph, an edge that points from vertex A to vertex B is denoted as:

Answer :

Question Id : 72

Option Id

(A) (A, B)

☐ 72001

(B) [A, B]

☐ 72002

(C) <A, B>

☐ 72003

(D) {A, B}

☐ 72004

**Right Answer :**

(A, B)

**Right Option Id : 72001**

**Question 23**

Separate chaining involves storing collided elements in separate data structures, typically in:

Answer :

(A) Linked lists

(B) Arrays

(C) Stacks

(D) Queues

**Question Id : 71**

Option Id

☐ 71001

☐ 71002

☐ 71003

☐ 71004

**Right Answer :**

Linked lists

**Right Option Id : 71001**

**Question 24**

Which collision resolution technique involves placing collided elements in the next available empty slot in the hash table?

Answer :

(A) Linear probing

(B) Quadratic probing

(C) Separate chaining

(D) Double hashing

**Question Id : 70**

Option Id

☐ 70001

☐ 70002

☐ 70003

☐ 70004

**Right Answer :**

Linear probing

**Right Option Id : 70001**

**Question 25**

In the Tower of Hanoi problem with "n" disks, how many moves are required to solve the problem?

Answer :

(A) n

(B) 2n

(C)  $2^n - 1$

(D)  $2^n$

**Question Id : 69**

Option Id

☐ 69001

☐ 69002

☐ 69003

☐ 69004

**Right Answer :**

$2^n - 1$

**Right Option Id : 69003**

**Question 26**

The process of removing recursion involves replacing recursive function calls with:

Answer :

(A) More recursive function calls

(B) Loops

(C) Additional memory allocation

**Question Id : 68**

Option Id

☐ 68001

☐ 68002

☐ 68003

(D) Non-recursive function calls

☐ 68004

**Right Answer :**

Loops

**Right Option Id : 68002**

**Question 27**

A formal model of protection in an operating system provides:

Answer :

(A) A mathematical framework for analyzing resource allocation

(B) Guidelines for designing user interfaces

(C) Methods for optimizing memory management

(D) Techniques for improving CPU utilization

**Question Id : 66**

Option Id

☐ 66001

☐ 66002

☐ 66003

☐ 66004

**Right Answer :**

A mathematical framework for analyzing resource allocation

**Right Option Id : 66001**

**Question 28**

In an operating system, a "buffer cache" is used to:

Answer :

(A) Store files in memory

(B) Store copies of frequently used files in memory

(C) Store the operating system kernel

(D) Store input/output devices

**Question Id : 59**

Option Id

☐ 59001

☐ 59002

☐ 59003

☐ 59004

**Right Answer :**

Store copies of frequently used files in memory

**Right Option Id : 59002**

**Question 29**

File manipulation operations in an operating system include:

Answer :

(A) Allocating memory to files

(B) Assigning file names to processes

(C) Loading files into CPU registers

(D) Reading, writing, and modifying file content

**Question Id : 65**

Option Id

☐ 65001

☐ 65002

☐ 65003

☐ 65004

**Right Answer :**

Reading, writing, and modifying file content

**Right Option Id : 65004**

**Question 30**

The I/O subsystem in an operating system is responsible for:

Answer :

(A) Allocating memory for processes

(B) Managing the file system

(C) Managing input/output operations between processes and input/output devices

(D) Allocating CPU time to processes

**Question Id : 64**

Option Id

☐ 64001

☐ 64002

☐ 64003

☐ 64004

**Right Answer :**

Managing input/output operations between processes and input/output devices

**Right Option Id : 64003**

Question 31

The primary goal of load control is to:

Answer :

- (A) Prevent processes from running concurrently
- (B) Avoid context switching between processes
- (C) Ensure that CPU time is evenly distributed among processes
- (D) Maximize the usage of virtual memory

Right Answer :

Ensure that CPU time is evenly distributed among processes

Question Id : 63

Option Id

- ☐ 63001
- ☐ 63002
- ☐ 63003
- ☐ 63004

Right Option Id : 63003

Question 32

The purpose of a page table in a paging system is to:

Answer :

- (A) Store pages of memory
- (B) Manage input/output operations
- (C) Translate virtual addresses to physical addresses
- (D) Store program instructions

Right Answer :

Translate virtual addresses to physical addresses

Question Id : 62

Option Id

- ☐ 62001
- ☐ 62002
- ☐ 62003
- ☐ 62004

Right Option Id : 62003

Question 33

In multiprogramming with fixed partitions, if a process requires more memory than is available in a partition, it may lead to:

Answer :

- (A) Fragmentation
- (B) Deadlock
- (C) Priority inversion
- (D) Starvation

Right Answer :

Fragmentation

Question Id : 61

Option Id

- ☐ 61001
- ☐ 61002
- ☐ 61003
- ☐ 61004

Right Option Id : 61001

Question 34

What is DBMS?

Answer :

- (A) DBMS is a collection of queries
- (B) ) DBMS is a high-level language
- (C) DBMS is a programming language
- (D) DBMS stores, modifies and retrieves data

Right Answer :

DBMS stores, modifies and retrieves data

Question Id : 60

Option Id

- ☐ 60001
- ☐ 60002
- ☐ 60003
- ☐ 60004

Right Option Id : 60004

Question 35

Which of the following is correct according to the technology deployed by DBMS?

Question Id : 40



Answer :

- (A) Pointers are used to maintain transactional integrity and consistency
- (B) Cursors are used to maintain transactional integrity and consistency
- (C) Locks are used to maintain transactional integrity and consistency
- (D) Triggers are used to maintain transactional integrity and consistency

Option Id

- ☐ 40001
- ☐ 40002
- ☐ 40003
- ☐ 40004

Right Answer :

Locks are used to maintain transactional integrity and consistency

Right Option Id : 40003

Question 36

The term "NTFS" refers to which one of the following?

Answer :

- (A) New Technology File System
- (B) New Tree File System
- (C) New Table type File System
- (D) Both A and C

Option Id

- ☐ 39001
- ☐ 39002
- ☐ 39003
- ☐ 39004

Right Answer :

New Technology File System

Right Option Id : 39001

Question 37

Which of the following is a top-down approach in which the entity's higher level can be divided into two lower sub-entities?

Answer :

- (A) Aggregation
- (B) Generalization
- (C) Specialization
- (D) All of the above

Option Id

- ☐ 38001
- ☐ 38002
- ☐ 38003
- ☐ 38004

Right Answer :

Specialization

Right Option Id : 38003

Question 38

The term "DFD" stands for?

Answer :

- (A) Data file diagram
- (B) Data flow document
- (C) Data flow diagram
- (D) None of the above

Option Id

- ☐ 37001
- ☐ 37002
- ☐ 37003
- ☐ 37004

Right Answer :

Data flow diagram

Right Option Id : 37003

Question 39

The term "FAT" is stands for\_\_\_\_\_

Answer :

- (A) File Allocation Tree
- (B) File Allocation Table
- (C) File Allocation Graph

Option Id

- ☐ 17001
- ☐ 17002
- ☐ 17003

Question Id : 17

(D) All of the above

☐ 17004

**Right Answer :**

File Allocation Table

**Right Option Id : 17002**

**Question 40**

The term "Data" refers to:

Answer :

(A) The electronic representation of the information(or data)

(B) Basic information

(C) Row Facts and figures

(D) Both A and C

**Question Id : 16**

Option Id

☐ 16001

☐ 16002

☐ 16003

☐ 16004

**Right Answer :**

Row Facts and figures

**Right Option Id : 16003**

**Question 41**

What is the primary function of routing in the network layer?

Answer :

(A) Data framing

(B) Error correction

(C) Finding the best path for data

(D) Flow control

**Question Id : 15**

Option Id

☐ 15001

☐ 15002

☐ 15003

☐ 15004

**Right Answer :**

Finding the best path for data

**Right Option Id : 15003**

**Question 42**

What is a socket in the context of process-to-process communication?

Answer :

(A) A hardware device for data transmission

(B) A software interface for network communication

(C) A type of cable used for high-speed data transmission

(D) type of network topology

**Question Id : 14**

Option Id

☐ 14001

☐ 14002

☐ 14003

☐ 14004

**Right Answer :**

A software interface for network communication

**Right Option Id : 14002**

**Question 43**

Data transmission using multiple pathways simultaneously is known as:

Answer :

(A) Parallel Transmission

(B) Serial Transmission

(C) Duplex Transmission

(D) Half-duplex Transmission

**Question Id : 13**

Option Id

☐ 13001

☐ 13002

☐ 13003

☐ 13004

**Right Answer :**

Parallel Transmission

**Right Option Id : 13001**

Question 44

Which of the following is NOT a network topology?

Answer :

- (A) Star
- (B) Ring
- (C) Disk
- (D) Mesh

Right Answer :

Disk

Question Id : 12

Option Id

- ☐ 12001
- ☐ 12002
- ☐ 12003
- ☐ 12004

Right Option Id : 12003

Question 45

Contention-based MAC protocols are commonly used in:

Answer :

- (A) Ethernet networks
- (B) Token Ring networks
- (C) ATM networks
- (D) Point-to-Point networks

Right Answer :

Ethernet networks

Question Id : 11

Option Id

- ☐ 11001
- ☐ 11002
- ☐ 11003
- ☐ 11004

Right Option Id : 11001

Question 46

Routing involves:

Answer :

- (A) Dividing data into frames
- (B) Managing flow control
- (C) Determining the best path for data packets
- (D) Correcting errors in data transmission

Right Answer :

Determining the best path for data packets

Question Id : 10

Option Id

- ☐ 10001
- ☐ 10002
- ☐ 10003
- ☐ 10004

Right Option Id : 10003

Question 47

What is the purpose of ARP (Address Resolution Protocol)?

Answer :

- (A) To assign IP addresses to devices
- (B) To resolve domain names to IP addresses
- (C) To map MAC addresses to IP addresses
- (D) To manage network congestion

Right Answer :

To map MAC addresses to IP addresses

Question Id : 9

Option Id

- ☐ 9001
- ☐ 9002
- ☐ 9003
- ☐ 9004

Right Option Id : 9003

Question 48

Which software life cycle model allows for iterative development and incorporates risk analysis?

Answer :

Question Id : 8

Option Id

- (A) Waterfall model

☐ 8001
- (B) Prototype model

☐ 8002
- (C) Spiral model

☐ 8003
- (D) Agile model

☐ 8004

Right Answer :  
Spiral model

Right Option Id : 8003

Question 49

What is the main goal of software quality assurance?

Answer :

(A) To eliminate all defects from the software

(B) To ensure the software is defect-free before release

(C) To establish and enforce standards and processes to improve software quality

(D) To test software under different conditions

Right Answer :  
To establish and enforce standards and processes to improve software quality

Question Id : 7

Option Id

☐ 7001

☐ 7002

☐ 7003

☐ 7004

Right Option Id : 7003

Question 50

Reverse engineering is primarily used for:

Answer :

(A) Creating new software from scratch

(B) Improving software performance

(C) Understanding and documenting existing software

(D) Testing software components

Right Answer :  
Understanding and documenting existing software

Question Id : 6

Option Id

☐ 6001

☐ 6002

☐ 6003

☐ 6004

Right Option Id : 6003

Question 51

Which testing approach involves testing individual components or units of code?

Answer :

(A) Integration Testing

(B) System Testing

(C) Unit Testing

(D) Acceptance Testing

Right Answer :  
Unit Testing

Question Id : 5

Option Id

☐ 5001

☐ 5002

☐ 5003

☐ 5004

Right Option Id : 5003

Question 52

What is the main goal of System Testing?

Answer :

(A) Testing individual components in isolation

(B) Testing the integration between different software components

(C) Testing software functionality from the user's perspective

Question Id : 4

Option Id

☐ 4001

☐ 4002

☐ 4003

(D) Identifying defects in the source code

☐ 4004

**Right Answer :**

Testing software functionality from the user's perspective

**Right Option Id : 4003**

**Question 53**

Which metric is used for estimating the size of a software project?

Answer :

(A) Cyclomatic Complexity

(B) Function Points (FP)

(C) Defect Density

(D) Software Reliability Index

**Question Id : 3**

Option Id

☐ 3001

☐ 3002

☐ 3003

☐ 3004

**Right Answer :**

Function Points (FP)

**Right Option Id : 3002**

**Question 54**

What is the purpose of staffing level estimation in software project management?

Answer :

(A) To determine the number of hardware components required

(B) To identify potential risks in the project

(C) To allocate appropriate resources to the project

(D) To estimate the maintenance costs of the software

**Question Id : 18**

Option Id

☐ 18001

☐ 18002

☐ 18003

☐ 18004

**Right Answer :**

To identify potential risks in the project

**Right Option Id : 18002**

**Question 55**

Which keyword is used to create an instance of a class in most programming languages?

Answer :

(A) alloc

(B) new

(C) create

(D) instance

**Question Id : 2**

Option Id

☐ 2001

☐ 2002

☐ 2003

☐ 2004

**Right Answer :**

new

**Right Option Id : 2002**

**Question 56**

What is an abstract class in OOP?

Answer :

(A) A class with no methods

(B) A class that cannot be instantiated

(C) A class that can only have private members

(D) A class that cannot have methods with parameters

**Question Id : 19**

Option Id

☐ 19001

☐ 19002

☐ 19003

☐ 19004

**Right Answer :**

A class that cannot be instantiated

**Right Option Id : 19002**

Question 57

What is the purpose of the "super" keyword in Java and other similar languages?

Answer :

- (A) It refers to the superclass in inheritance
- (B) It creates a new object instance
- (C) It defines a new class
- (D) It handles exceptions

Right Answer :

It refers to the superclass in inheritance

Question Id : 21

Option Id

- ☐ 21001
- ☐ 21002
- ☐ 21003
- ☐ 21004

Right Option Id : 21001

Question 58

Which of the following best defines a class?

Answer :

- (A) An instance of an object
- (B) A blueprint for creating objects
- (C) A variable holding data
- (D) A function with a return value

Right Answer :

A blueprint for creating objects

Question Id : 36

Option Id

- ☐ 36001
- ☐ 36002
- ☐ 36003
- ☐ 36004

Right Option Id : 36002

Question 59

Which principle ensures that only essential information is visible to the outside world?

Answer :

- (A) Polymorphism
- (B) Information hiding
- (C) Encapsulation
- (D) Abstraction

Right Answer :

Information hiding

Question Id : 35

Option Id

- ☐ 35001
- ☐ 35002
- ☐ 35003
- ☐ 35004

Right Option Id : 35002

Question 60

What is the main purpose of inheritance in OOP?

Answer :

- (A) To create instances of classes
- (B) To prevent data abstraction
- (C) To establish a parent-child relationship between classes
- (D) To define exceptions

Right Answer :

To establish a parent-child relationship between classes

Question Id : 34

Option Id

- ☐ 34001
- ☐ 34002
- ☐ 34003
- ☐ 34004

Right Option Id : 34003

Question 61

What are abstract methods?

Answer :

Question Id : 33

Option Id

- (A) Methods that are inaccessible to the outside world
- (B) Methods that have implementation details
- (C) Methods without a body, defined in an abstract class
- (D) Methods that cannot be inherited

- ☐ 33001
- ☐ 33002
- ☐ 33003
- ☐ 33004

**Right Answer :**

Methods without a body, defined in an abstract class

**Right Option Id : 33003**

**Question 62**

Which protocol is commonly used for sending emails?

Answer :

- (A) .HTTPS
- (B) FTP
- (C) SMTP
- (D) TCP

Option Id

- ☐ 32001
- ☐ 32002
- ☐ 32003
- ☐ 32004

**Right Answer :**

SMTP

**Right Option Id : 32003**

**Question 63**

What does CSS stand for?

Answer :

- (A) Cascading Style System
- (B) Creative Styling Script
- (C) Computer Style Sheets
- (D) Cascading Style Sheets

Option Id

- ☐ 31001
- ☐ 31002
- ☐ 31003
- ☐ 31004

**Right Answer :**

Cascading Style Sheets

**Right Option Id : 31004**

**Question 64**

Which library simplifies JavaScript tasks like HTML document traversal and manipulation?

Answer :

- (A) JavaFX
- (B) Bootstrap
- (C) React
- (D) jQuery

Option Id

- ☐ 30001
- ☐ 30002
- ☐ 30003
- ☐ 30004

**Right Answer :**

jQuery

**Right Option Id : 30004**

**Question 65**

What does AJAX stand for?

Answer :

- (A) Asynchronous JavaScript and XML
- (B) Automated JavaScript and XHTML
- (C) Advanced JavaScript and XML

Option Id

- ☐ 29001
- ☐ 29002
- ☐ 29003

**Question Id : 29**

(D) Asynchronous JSON and XHTML

☐ 29004

**Right Answer :**

Asynchronous JavaScript and XML

**Right Option Id : 29001**

**Question 66**

How does the DOM tree structure reflect the hierarchy of HTML elements?

Answer :

(A) In alphabetical order

(B) Based on the element's size

(C) In a parent-child relationship

(D) According to the element's color

**Question Id : 28**

Option Id

☐ 28001

☐ 28002

☐ 28003

☐ 28004

**Right Answer :**

In a parent-child relationship

**Right Option Id : 28003**

**Question 67**

In XML, which attribute is used to uniquely identify an element?

Answer :

(A) id

(B) class

(C) name

(D) tag

**Question Id : 27**

Option Id

☐ 27001

☐ 27002

☐ 27003

☐ 27004

**Right Answer :**

id

**Right Option Id : 27001**

**Question 68**

The Kleene Star operation accepts the following string of finite length over set  $A = \{0,1\}$  | where string s contains even number of 0 and 1.

Answer :

(A) 01, 0011,010101

(B) 0011, 11001100

(C)  $\epsilon$ , 0011, 11001101

(D)  $\epsilon$ , 0011, 11001100

**Question Id : 26**

Option Id

☐ 26001

☐ 26002

☐ 26003

☐ 26004

**Right Answer :**

$\epsilon$ , 0011, 11001100

**Right Option Id : 26004**

**Question 69**

A Language for which DFA exist is a\_\_\_\_\_

Answer :

(A) Regular Language

(B) Non-Regular Language

(C) Any language

(D) Cannot be said

**Question Id : 25**

Option Id

☐ 25001

☐ 25002

☐ 25003

☐ 25004

**Right Answer :**

Regular Language

**Right Option Id : 25001**



Question 70

Let  $u = '1101'$ ,  $v = '0001'$ , then  $uv = 11010001$  and  $vu = 00011101$ . Using the given information what is the identity element for the string?

Answer :

- (A)  $u^{-1}$
- (B)  $v^{-1}$
- (C)  $u^{-1}v^{-1}$
- (D)  $\epsilon$

Right Answer :  
 $\epsilon$

Question Id : 24

Option Id

- ☐ 24001
- ☐ 24002
- ☐ 24003
- ☐ 24004

Right Option Id : 24004

Question 71

For a DFA accepting binary numbers whose decimal equivalent is divisible by 3, what are all the possible remainders?

Answer :

- (A) 0
- (B) 0,2
- (C) 0,1,2
- (D) 0,1,2,3

Right Answer :  
0,1,2

Question Id : 23

Option Id

- ☐ 23001
- ☐ 23002
- ☐ 23003
- ☐ 23004

Right Option Id : 23003

Question 72

Minimum Number of states require to accept string ends with 101.

Answer :

- (A) 3
- (B) 2
- (C) 1
- (D) can't be represented

Right Answer :  
2

Question Id : 22

Option Id

- ☐ 22001
- ☐ 22002
- ☐ 22003
- ☐ 22004

Right Option Id : 22002

Question 73

If NFA of 5 states excluding the initial state is converted into DFA, maximum possible number of states for the DFA is?

Answer :

- (A) 64
- (B) 32
- (C) 128
- (D) 187

Right Answer :  
64

Question Id : 74

Option Id

- ☐ 74001
- ☐ 74002
- ☐ 74003
- ☐ 74004

Right Option Id : 74001

Question 74

The class of CFG is not closed under

Answer :

- (A) Concatenation

Question Id : 20

Option Id

(B) Intersection

(C) Union

(D) Repeated Concatenation.

20001

20002

20003

20004

Right Answer :

Repeated Concatenation.

Right Option Id : 20004

Question 75

Which among the following is not true about IoT?

Answer :

(A) IoT uses Micro Controllers

(B) IoT is fully safe

(C) IoT uses Sensors and Actuators

(D) IoT uses wireless technology

Question Id : 75

Option Id

75001

75002

75003

75004

Right Answer :

IoT is fully safe

Right Option Id : 75002

Question 76

About IoT, which among the followings isnot correct?

Answer :

(A) Light sensor is analog

(B) microphone is a digital sensor

(C) Keyboard is a digital sensor

(D) Push button is a digital Sensor

Question Id : 78

Option Id

78001

78002

78003

78004

Right Answer :

microphone is a digital sensor

Right Option Id : 78002

Question 77

BLE stands for

Answer :

(A) Bluetooth large energy

(B) Bluetooth low energy

(C) Bluetooth light energy

(D) Bluetooth long energy

Question Id : 92

Option Id

92001

92002

92003

92004

Right Answer :

Bluetooth low energy

Right Option Id : 92002

Question 78

WSN stands for?

Answer :

(A) Wireless Standard Protocol

(B) Wireless Sensor Protocol

(C) Wireless Serial Protocol

(D) Wireless Single Protocol

Question Id : 93

Option Id

93001

93002

93003

93004

**Right Answer :**  
Wireless Sensor Protocol

**Right Option Id : 93002**

**Question 79**  
A complex SCADA system has \_\_\_\_\_levels?

Answer :

- (A) 6
- (B) 5
- (C) 3
- (D) 4

**Right Answer :**  
4

**Question Id : 94**

Option Id

- ☐ 94001
- ☐ 94002
- ☐ 94003
- ☐ 94004

**Right Option Id : 94004**

**Question 80**  
What is the role of the MISO pin in the RFID Module?

Answer :

- (A) Master In Slave Out
- (B) Manage Internal Slave Output
- (C) Master Internal Search Optimization
- (D) Manage Input Slave Op

**Right Answer :**  
Master In Slave Out

**Question Id : 97**

Option Id

- ☐ 97001
- ☐ 97002
- ☐ 97003
- ☐ 97004

**Right Option Id : 97001**

**Question 81**  
Who is known as the father of AI?

Answer :

- (A) Fisher Ada
- (B) Alan Turing
- (C) John McCarthy
- (D) Allen Newell

**Right Answer :**  
John McCarthy

**Question Id : 96**

Option Id

- ☐ 96001
- ☐ 96002
- ☐ 96003
- ☐ 96004

**Right Option Id : 96003**

**Question 82**  
Programming language commonly used for AI is\_\_\_?

Answer :

- (A) Lisp
- (B) Perl
- (C) Prolog
- (D) C++

**Right Answer :**  
Perl

**Question Id : 91**

Option Id

- ☐ 91001
- ☐ 91002
- ☐ 91003
- ☐ 91004

**Right Option Id : 91002**

Question 83

The algorithm used in the Game tree to make decisions of Win/Lose is \_\_\_\_\_?

Answer :

- (A) Heuristic Search Algorithm
- (B) DFS/ BFL algorithm
- (C) Greedy Search algorithm
- (D) Min/Max algorithm

Right Answer :

Min/Max algorithm

Question Id : 98

Option Id

- ☐ 98001
- ☐ 98002
- ☐ 98003
- ☐ 98004

Right Option Id : 98004

Question 84

Uniform-cost search expands the node n with the \_\_\_\_\_

Answer :

- (A) Lowest path cost
- (B) Heuristic cost
- (C) Highest path cost
- (D) Average path cost

Right Answer :

Lowest path cost

Question Id : 99

Option Id

- ☐ 99001
- ☐ 99002
- ☐ 99003
- ☐ 99004

Right Option Id : 99001

Question 85

The process of removing detail from a given state representation is called \_\_\_\_\_

Answer :

- (A) Extraction
- (B) Abstraction
- (C) Data Mining
- (D) Information Retrieval

Right Answer :

Abstraction

Question Id : 100

Option Id

- ☐ 100001
- ☐ 100002
- ☐ 100003
- ☐ 100004

Right Option Id : 100002

Question 86

What does a first order predicate logic contain?

Answer :

- (A) Predicate and a subject
- (B) Predicate and a Preposition
- (C) Subject and an object
- (D) None of the above

Right Answer :

Predicate and a subject

Question Id : 95

Option Id

- ☐ 95001
- ☐ 95002
- ☐ 95003
- ☐ 95004

Right Option Id : 95001

Question 87

Which of the following can improve the performance of AI agent?

Answer :

- (A) Precision

Question Id : 90

Option Id

- ☐ 90001

- (B) Learning
- (C) Observing
- (D) All of the above

- ☐ 90002
- ☐ 90003
- ☐ 90004

Right Answer :  
Learning

Right Option Id : 90002

Question 88  
Which of the following is part of the four main types for e-commerce?

Answer :

- (A) B2B
- (B) B2C
- (C) C2B
- (D) All of the above

- Option Id
- ☐ 77001
  - ☐ 77002
  - ☐ 77003
  - ☐ 77004

Right Answer :  
All of the above

Right Option Id : 77004

Question 89  
What is the process in which a buyer posts its interest in buying a certain quantity of items, and sellers compete for the business by submitting successively lower bids until there is only one seller left?

Answer :

- (A) B2B Marketplace
- (B) Auction
- (C) Reverse Auction
- (D) Intranet

- Option Id
- ☐ 88001
  - ☐ 88002
  - ☐ 88003
  - ☐ 88004

Right Answer :  
Reverse Auction

Right Option Id : 88003

Question 90  
If it is easy for competitors to enter the market, the threat of new entrants is considered:

Answer :

- (A) Low
- (B) High
- (C) Moderate
- (D) Negligible

- Option Id
- ☐ 87001
  - ☐ 87002
  - ☐ 87003
  - ☐ 87004

Right Answer :  
High

Right Option Id : 87002

Question 91  
Which of the following refers to creating products tailored to individual customers?

- (A) Customization
- (B) Adaptation
- (C) Direct material
- (D) Auction

- Question Id : 89
- Option Id
- ☐ 89001
  - ☐ 89002
  - ☐ 89003

Right Answer :

Customization

Right Option Id : 89001

Question 92

Which form of e-marketplace brings together buyers and sellers from the same industry?

Answer :

- (A) Horizontal
- (B) Vertical
- (C) integrated
- (D) isolated

Question Id : 86

Option Id

- 86001
- 86002
- 86003
- 86004

Right Answer :

Vertical

Right Option Id : 86002

Question 93

Which of the following is done by Secure Sockets Layers?

Answer :

- (A) creates a secure, private connection to a web server
- (B) Encrypts information
- (C) Sends information over the internet
- (D) All of the above

Question Id : 85

Option Id

- 85001
- 85002
- 85003
- 85004

Right Answer :

All of the above

Right Option Id : 85004

Question 94

The delay that occur during the playback of a stream is called \_\_\_\_\_

Answer :

- (A) Stream delay
- (B) Playback delay
- (C) Jitter
- (D) Event delay

Question Id : 84

Option Id

- 84001
- 84002
- 84003
- 84004

Right Answer :

Jitter

Right Option Id : 84003

Question 95

In teardown state of real time streaming protocol is \_\_\_\_\_

Answer :

- (A) the server resources for client
- (B) server delivers the stream to client
- (C) server suspends delivery of stream
- (D) server breaks down the connection

Question Id : 76

Option Id

- 76001
- 76002
- 76003
- 76004

Right Answer :

server breaks down the connection

Right Option Id : 76004

Question 96

In Real Time Interactive Audio Video, Jitter is introduced in real-time data by delay between\_\_\_\_

Answer :

- (A) pixels
- (B) layers
- (C) frames
- (D) packets

Right Answer :  
packets

Question Id : 83

Option Id

- ☐ 83001
- ☐ 83002
- ☐ 83003
- ☐ 83004

Right Option Id : 83004

Question 97

In Audio and Video Compression, voice is sampled at 8000 samples per second with\_\_\_\_\_

Answer :

- (A) 8 bits per sample
- (B) 5 bits per sample
- (C) 7 bits per sample
- (D) 6 bits per sample

Right Answer :  
8 bits per sample

Question Id : 82

Option Id

- ☐ 82001
- ☐ 82002
- ☐ 82003
- ☐ 82004

Right Option Id : 82001

Question 98

Audio compression can be used for\_\_\_\_\_

Answer :

- (A) voice and data
- (B) video and voice
- (C) speech or music
- (D) picture and colors

Right Answer :  
speech or music

Question Id : 81

Option Id

- ☐ 81001
- ☐ 81002
- ☐ 81003
- ☐ 81004

Right Option Id : 81003

Question 99

Each \_\_\_\_ represents a particular colour.

Answer :

- (A) Frame
- (B) Character
- (C) Pixel value
- (D) None of the above

Right Answer :  
Pixel value

Question Id : 80

Option Id

- ☐ 80001
- ☐ 80002
- ☐ 80003
- ☐ 80004

Right Option Id : 80003

Question 100

\_\_\_\_\_ is basically a form of pictorial presentation.

Answer :

- (A) Photography

Question Id : 79

Option Id

- ☐ 79001

(B) Animations

☐ 79002

(C) Drawing

☐ 79003

(D) Creativity

☐ 79004

**Right Answer :**

Animations

**Right Option Id : 79002**

**Art Of Teaching**

**Question 101**

The main aim of classroom teaching is

Answer :

(A) to give information

(B) help to pass examination

(C) syllabus coverage

(D) to develop personality

**Question Id : 120**

Option Id

☐ 120001

☐ 120002

☐ 120003

☐ 120004

**Right Answer :**

to develop personality

**Right Option Id : 120004**

**Question 102**

To ensure participation of students we use

Answer :

(A) demonstration

(B) little man's lecture

(C) discussion

(D) illustration

**Question Id : 121**

Option Id

☐ 121001

☐ 121002

☐ 121003

☐ 121004

**Right Answer :**

discussion

**Right Option Id : 121003**

**Question 103**

learning through independent effort is

Answer :

(A) autonomous learning

(B) autocratic learning

(C) democratic learning

(D) all the above

**Question Id : 125**

Option Id

☐ 125001

☐ 125002

☐ 125003

☐ 125004

**Right Answer :**

autonomous learning

**Right Option Id : 125001**

**Question 104**

Aims

Answer :

(A) may include abstract concepts

(B) difficult to measure

(C) may include appreciation

**Question Id : 123**

Option Id

☐ 123001

☐ 123002

☐ 123003



(D) All the above

☐ 123004

**Right Answer :**

All the above

**Right Option Id : 123004**

**Question 105**

psychomotor domain relates to

Answer :

(A) map making

(B) project making

(C) playing

(D) all the above

**Question Id : 124**

Option Id

☐ 124001

☐ 124002

☐ 124003

☐ 124004

**Right Answer :**

all the above

**Right Option Id : 124004**

**Question 106**

Heuristic means

Answer :

(A) to invertigate

(B) to show

(C) to do

(D) to act

**Question Id : 119**

Option Id

☐ 119001

☐ 119002

☐ 119003

☐ 119004

**Right Answer :**

to invertigate

**Right Option Id : 119001**

**Question 107**

Armstrong gifted teaching with

Answer :

(A) Project method

(B) heuristic method

(C) team teaching

(D) blended method

**Question Id : 117**

Option Id

☐ 117001

☐ 117002

☐ 117003

☐ 117004

**Right Answer :**

heuristic method

**Right Option Id : 117002**

**Question 108**

Set induction relates to

Answer :

(A) previous knowledge

(B) new knowledge

(C) specific objectives

(D) statement of aim

**Question Id : 126**

Option Id

☐ 126001

☐ 126002

☐ 126003

☐ 126004

**Right Answer :**

previous knowledge

**Right Option Id : 126001**

Question 109

Diadactic teaching materials was introduced by

Answer :

- (A) Pestalozzi
- (B) froebel
- (C) Montessori
- (D) Dewey

Right Answer :  
Montessori

Question Id : 127

Option Id

- ☐ 127001
- ☐ 127002
- ☐ 127003
- ☐ 127004

Right Option Id : 127003

Question 110

The centre point of a lesson plan is

Answer :

- (A) principal
- (B) teacher
- (C) student
- (D) none of the above

Right Answer :  
student

Question Id : 128

Option Id

- ☐ 128001
- ☐ 128002
- ☐ 128003
- ☐ 128004

Right Option Id : 128003

Question 111

According to Howard Gardner, a philosopher has ..... Type of intelligence and a sculptor has more ..... type of intelligence.

Answer :

- (A) interpersonal; linguistic
- (B) linguistic; interpersonal
- (C) spatial; intrapersonal
- (D) intrapersonal; spatial

Right Answer :  
intrapersonal; spatial

Question Id : 129

Option Id

- ☐ 129001
- ☐ 129002
- ☐ 129003
- ☐ 129004

Right Option Id : 129004

Question 112

Which of the following is an example of an internal attribution for failure?

Answer :

- (A) I failed the test because my friends were distracting me.
- (B) I received a low grade because the teacher is a tough grader.
- (C) I failed the test because I didn't study enough.
- (D) I didn't get good marks because the teacher was biased.

Right Answer :  
I failed the test because I didn't study enough.

Question Id : 108

Option Id

- ☐ 108001
- ☐ 108002
- ☐ 108003
- ☐ 108004

Right Option Id : 108003

Question 113

Which of the following is an example of a question that requires students to reflect on their own thinking?

Answer :

- (A) how has your thinking about the use of verbs changed since the beginning of the class ?

Question Id : 130

Option Id

(B) what is the relationship between nouns and verbs in a sentence?

(C) what is the definition of a verb?

(D) how do you change a verb to the present tense?

Right Answer :  
how has your thinking about the use of verbs changed since the beginning of the class ?

Right Option Id : 130001

Question 114

Micro teaching is more effective

Answer :

(A) always

(B) after the teaching-practice

(C) during the teaching-practice

(D) during the preparation for teaching-practice

Question Id : 122

Option Id

122001

122002

122003

122004

Right Answer :  
during the teaching-practice

Right Option Id : 122003

Question 115

Which of the following are the characteristics of a person with scientific attitude?

Answer :

(A) Brevity

(B) Objectivity

(C) Adventure

(D) Sharp memory

Question Id : 118

Option Id

118001

118002

118003

118004

Right Answer :  
Objectivity

Right Option Id : 118002

Question 116

Library man Provide

Answer :

(A) Physical mateial

(B) Digital material

(C) Both A & B

(D) None of these

Question Id : 115

Option Id

115001

115002

115003

115004

Right Answer :  
Both A & B

Right Option Id : 115003

Question 117

Which of the following components are essential for library?

Answer :

(A) Learning

(B) Walking

(C) Playing

Question Id : 116

Option Id

116001

116002

116003

(D) None of these

☐ 116004

**Right Answer :**

Learning

**Right Option Id : 116001**

**Question 118**

A teacher should ask-

Answer :

(A) meaningful question

(B) maximum number of question in a fixed time

(C) as many question as possible

(D) None of these

**Question Id : 101**

Option Id

☐ 101001

☐ 101002

☐ 101003

☐ 101004

**Right Answer :**

meaningful question

**Right Option Id : 101001**

**Question 119**

Which of the following important cause of failure for teacher?

Answer :

(A) interpersonal relationship

(B) verbal ability

(C) lack of command over the knowledge of subject

(D) None of the above

**Question Id : 102**

Option Id

☐ 102001

☐ 102002

☐ 102003

☐ 102004

**Right Answer :**

lack of command over the knowledge of subject

**Right Option Id : 102003**

**Question 120**

Teacher should master during his teaching period

Answer :

(A) in one of the teaching method

(B) equally across all teaching method

(C) Both A & B

(D) None of these

**Question Id : 104**

Option Id

☐ 104001

☐ 104002

☐ 104003

☐ 104004

**Right Answer :**

equally across all teaching method

**Right Option Id : 104002**

**Question 121**

Knowledge is-

Answer :

(A) Information

(B) Application

(C) Analysis

(D) Understanding

**Question Id : 105**

Option Id

☐ 105001

☐ 105002

☐ 105003

☐ 105004

**Right Answer :**

Information

**Right Option Id : 105001**

Question 122

Formative evaluation is conducted

Answer :

- (A) After the teaching learning process
- (B) Before the teaching learning process
- (C) During the teaching learning process
- (D) All of the above

Right Answer :

During the teaching learning process

Question Id : 106

Option Id

- ☐ 106001
- ☐ 106002
- ☐ 106003
- ☐ 106004

Right Option Id : 106003

Question 123

Which technique is used for evaluation of interest?

Answer :

- (A) Observation technique
- (B) Check list
- (C) Rating scale
- (D) Projective Technique

Right Answer :

Rating scale

Question Id : 107

Option Id

- ☐ 107001
- ☐ 107002
- ☐ 107003
- ☐ 107004

Right Option Id : 107003

Question 124

Which of the following is not a type of curriculum design?

Answer :

- (A) Subject-centered
- (B) Problem Centered
- (C) Learner-Centered
- (D) Teacher-Centered

Right Answer :

Teacher-Centered

Question Id : 103

Option Id

- ☐ 103001
- ☐ 103002
- ☐ 103003
- ☐ 103004

Right Option Id : 103004

Question 125

Which of the following is not the nature of curriculum?

Answer :

- (A) Critical
- (B) Creative
- (C) Conservative
- (D) Active

Right Answer :

Active

Question Id : 109

Option Id

- ☐ 109001
- ☐ 109002
- ☐ 109003
- ☐ 109004

Right Option Id : 109004

Question 126

The biggest challenge before democracy is -

Answer :

- (A) Fundamentalism

Question Id : 110

Option Id

(B) Castism

(C) Regionalism

(D) All the above

Right Answer :  
Fundamentalism

Right Option Id : 110001

Question 127

A teacher shoul behave with all the student as -

Answer :

(A) as a friend

(B) as a master

(C) equally

(D) personally

Question Id : 111

Option Id

111001

111002

111003

111004

Right Answer :  
as a friend

Right Option Id : 111001

Question 128

Failure can be our best teacher if-

Answer :

(A) we work harder than before

(B) we know the reasons of failure

(C) we know the reasons of failure and then being encouraged we work harder than before

(D) none of the above

Question Id : 112

Option Id

112001

112002

112003

112004

Right Answer :  
we know the reasons of failure and then being encouraged we work harder than before

Right Option Id : 112003

Question 129

Chal-Board is a kind of teaching aid-

Answer :

(A) Visual

(B) Audio

(C) Audio-Visual

(D) All of the above

Question Id : 113

Option Id

113001

113002

113003

113004

Right Answer :  
Visual

Right Option Id : 113001

Question 130

Television is

Answer :

(A) Visual aid

(B) Audio-visual aid

(C) Audio aid

Question Id : 114

Option Id

114001

114002

114003

(D) None of the above

☐ 114004

**Right Answer :**

Audio-visual aid

**Right Option Id : 114002**

Other Skills

**Question 131**

There were widespread rises against the British in the 1820s. Which one of the following did not revolt in the 1820s?

Answer :

(A) Santhals

(B) Ahoms

(C) Pagal Panthis

(D) Ramosi

**Question Id : 149**

Option Id

☐ 149001

☐ 149002

☐ 149003

☐ 149004

**Right Answer :**

Santhals

**Right Option Id : 149001**

**Question 132**

If the Sun rises at Tirap in Arunachal Pradesh at 5.00 am (IST), then when (IST) the Sun will rise in Kandla, Gujarat?

Answer :

(A) About 5.00 a.m.

(B) About 6.20 a.m.

(C) About 7.30 a.m.

(D) About 7.00 a.m.

**Question Id : 148**

Option Id

☐ 148001

☐ 148002

☐ 148003

☐ 148004

**Right Answer :**

About 7.00 a.m.

**Right Option Id : 148004**

**Question 133**

What is the maximum investment by any single investor in an Indian company?

Answer :

(A) 10%

(B) 15%

(C) 20%

(D) 25%

**Question Id : 147**

Option Id

☐ 147001

☐ 147002

☐ 147003

☐ 147004

**Right Answer :**

10%

**Right Option Id : 147001**

**Question 134**

Who among the following was not related to Champaran Satyagraha?

Answer :

(A) Dr. Rajendra Prasad

(B) Anugrah Narayan Singh

(C) JB Kriplani

(D) Jai Prakash Narayan

**Question Id : 146**

Option Id

☐ 146001

☐ 146002

☐ 146003

☐ 146004

**Right Answer :**

Jai Prakash Narayan

**Right Option Id : 146004**

Question 135

Visva-Bharati University, which was seen in the news recently, is located in which state?

Answer :

- (A) Uttar Pradesh
- (B) Bihar
- (C) West Bengal
- (D) Odisha

Right Answer :  
West Bengal

Question Id : 145

Option Id

- ☐ 145001
- ☐ 145002
- ☐ 145003
- ☐ 145004

Right Option Id : 145003

Question 136

Rama plays cricket with his friends every evening. Which energy does he use to play cricket?

Answer :

- (A) Sound energy
- (B) Light energy
- (C) Chemical energy
- (D) Muscular energy

Right Answer :  
Muscular energy

Question Id : 144

Option Id

- ☐ 144001
- ☐ 144002
- ☐ 144003
- ☐ 144004

Right Option Id : 144004

Question 137

Which one of the following is 'sticky rice' and is a common variety of rice in Assam?

Answer :

- (A) Ponni rice
- (B) Bora rice
- (C) Arborio rice
- (D) Bomba rice

Right Answer :  
Bora rice

Question Id : 143

Option Id

- ☐ 143001
- ☐ 143002
- ☐ 143003
- ☐ 143004

Right Option Id : 143002

Question 138

When we burn fuels, we get :

Answer :

- (A) Light and sound energy
- (B) Only light energy
- (C) Heat and light energy
- (D) Mechanical and Light energy

Right Answer :  
Heat and light energy

Question Id : 142

Option Id

- ☐ 142001
- ☐ 142002
- ☐ 142003
- ☐ 142004

Right Option Id : 142003

Question 139

Consider the following statements about snakes and identify the Incorrect one from the following:

Question Id : 141



Answer :

- (A) They chew up their prey
- (B) They swallow their food whole
- (C) Snakes have sharp teeth
- (D) Poisonous snakes have fangs.

Option Id

- ☐ 141001
- ☐ 141002
- ☐ 141003
- ☐ 141004

Right Answer :

They chew up their prey

Right Option Id : 141001

Question 140

With respect to Gujarat, the locations of Uttar Pradesh and Andhra Pradesh, respectively, are:

Answer :

- (A) North-West; Saouth-East
- (B) North-West; South-West
- (C) North-East; South-West
- (D) North-East; South-East

Option Id

- ☐ 131001
- ☐ 131002
- ☐ 131003
- ☐ 131004

Right Answer :

North-East; South-East

Right Option Id : 131004

Question 141

Which one of the following groups have all 3-dimensional shapes?

Answer :

- (A) Cube, Cuboid, Sphere, Cylinder
- (B) Cube, Cuboid, Semi-Circle, Cone
- (C) Cube, Cuboid, Circle, Cone
- (D) Cube, Cuboid, Circle, Triangle

Option Id

- ☐ 139001
- ☐ 139002
- ☐ 139003
- ☐ 139004

Right Answer :

Cube, Cuboid, Sphere, Cylinder

Right Option Id : 139001

Question 142

What is the missing number in the pattern given below? 1, 6, 15, -----45, 66, 91

Answer :

- (A) 25
- (B) 36
- (C) 28
- (D) 32

Option Id

- ☐ 138001
- ☐ 138002
- ☐ 138003
- ☐ 138004

Right Answer :

28

Right Option Id : 138003

Question 143

A whole number is added to 100 and the same number is subtracted from 100. the sum of the two resulting numbers so obtained is :

Answer :

- (A) 100
- (B) 200
- (C) 0

Option Id

- ☐ 137001
- ☐ 137002
- ☐ 137003

Question Id : 137

(D) 50

☐ 137004

**Right Answer :**  
200

**Right Option Id : 137002**

**Question 144**

The sum of 5 - 5 + 5 - 5 + 5 - 5 ..... , to odd number of terms is :

Answer :

(A) 5

(B) 15

(C) 0

(D) -5

**Right Answer :**  
5

**Question Id : 136**

Option Id

☐ 136001

☐ 136002

☐ 136003

☐ 136004

**Right Option Id : 136001**

**Question 145**

Which of the following arrangements represents a descending order of numbers?

Answer :

(A) 10.5, 1.50, 1.05, 1.055, 1.005, 0.155

(B) 10.5, 1.50, 1.055, 1.05, 1.005, 0.155

(C) 1.05, 1.005, 1.50, 1.055, 10.5, 0.155

(D) 10.5, 1.05, 1.055, 1.50, 1.005, 0.155

**Right Answer :**  
10.5, 1.50, 1.055, 1.05, 1.005, 0.155

**Question Id : 135**

Option Id

☐ 135001

☐ 135002

☐ 135003

☐ 135004

**Right Option Id : 135002**

**Question 146**

Monday : April : : Friday : ?

Answer :

(A) July

(B) Saturday

(C) August

(D) Tuesday

**Right Answer :**  
August

**Question Id : 134**

Option Id

☐ 134001

☐ 134002

☐ 134003

☐ 134004

**Right Option Id : 134003**

**Question 147**

Choose the word which is least like the other words in the group.

Answer :

(A) Kidney

(B) Heart

(C) Lung

(D) Ear

**Right Answer :**  
Heart

**Question Id : 133**

Option Id

☐ 133001

☐ 133002

☐ 133003

☐ 133004

**Right Option Id : 133002**

Question 148

60,30,120,15,240?

Answer :

- (A) 30
- (B) 120
- (C) 140
- (D) 71/2

Right Answer :  
71/2

Question Id : 132

Option Id

- ☐ 132001
- ☐ 132002
- ☐ 132003
- ☐ 132004

Right Option Id : 132004

Question 149

In a certain code, if BAD is written as YZW and SAID is written as HZRW, then LIFE will be written as:

Answer :

- (A) ORUV
- (B) OSUV
- (C) OQVU
- (D) ORVW

Right Answer :  
ORUV

Question Id : 140

Option Id

- ☐ 140001
- ☐ 140002
- ☐ 140003
- ☐ 140004

Right Option Id : 140001

Question 150

Pointing towards Sita, Nikhil said, "I am the only son of her mother's son". How is Sita related to Nikhil?

Answer :

- (A) Aunt
- (B) Niece
- (C) Mother
- (D) Cousin

Right Answer :  
Aunt

Question Id : 150

Option Id

- ☐ 150001
- ☐ 150002
- ☐ 150003
- ☐ 150004

Right Option Id : 150001