

Exam Date : 12/09/2023

Time : 10:00 AM - 12:30 PM

Subject Name : Computer Science

Subject Code : 226

Subject Question

Question 1

What is the simplified expression for the Boolean function $F(A, B, C, D) = \Sigma(0, 1, 2, 4, 5, 6, 8, 9, 10, 12, 13, 14)$ using the K-map method?

Answer :

(A) $A'B'C'D' + A'B'C'D + A'BC'D + AB'C'D + ABCD$ (B) $A'B'C'D' + A'BC'D + AB'C'D + ABC'D + ABCD$ (C) $A'B'C'D' + A'BC'D + ABC'D + ABCD$ (D) $A'B'C'D' + A'BC'D' + A'BCD + ABCD$

Right Answer :

 $A'B'C'D' + A'B'C'D + A'BC'D + AB'C'D + ABCD$

Question Id : 1

Option Id

☐ 1001☐ 1002☐ 1003☐ 1004

Right Option Id : 1001

Question 2

In a PLA, what components are used to implement the combinational logic functions?

Answer :

(A) AND gates and OR gates

(B) NAND gates and XOR gates

(C) NOR gates and XNOR gates

(D) NOT gates and multiplexers

Right Answer :

AND gates and OR gates

Question Id : 55

Option Id

☐ 55001☐ 55002☐ 55003☐ 55004

Right Option Id : 55001

Question 3

Which type of register is primarily used to temporarily hold data during arithmetic and logical operations in a microprocessor?

Answer :

(A) Shift register

(B) Parallel register

(C) Accumulator register

(D) Counter register

Right Answer :

Accumulator register

Question Id : 54

Option Id

☐ 54001☐ 54002☐ 54003☐ 54004

Right Option Id : 54003

Question 4

Which logic family uses both depletion and enhancement mode MOSFETs for its operation?

Answer :

(A) TTL

(B) ECL

(C) PMOS

(D) CMOS

Right Answer :

CMOS

Question Id : 53

Option Id

☐ 53001☐ 53002☐ 53003☐ 53004

Right Option Id : 53004

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

(D) Weather forecasting systems

44003

44004

Right Answer :
Engine control in cars

Right Option Id : 44003

Question 14

Which data structure often results in a time-space tradeoff by using extra memory to speed up operations?

Answer :

(A) Arrays

(B) Linked lists

(C) Hash tables

(D) Stacks

Question Id : 43

Option Id

43001

43002

43003

43004

Right Answer :
Hash tables

Right Option Id : 43003

Question 15

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?

Answer :

(A) Greedy algorithm

(B) Divide and conquer

(C) Dynamic programming

(D) Tradeoff

Question Id : 42

Option Id

42001

42002

42003

42004

Right Answer :
Tradeoff

Right Option Id : 42004

Question 16

Conditional asymptotic notation allows for a more nuanced analysis of algorithm behavior under specific conditions. This is particularly useful when:

Answer :

(A) Analyzing algorithms with constant time complexity

(B) The input size is fixed

(C) The input data is random

(D) Algorithm behavior varies based on certain input characteristics

Question Id : 41

Option Id

41001

41002

41003

41004

Right Answer :
Algorithm behavior varies based on certain input characteristics

Right Option Id : 41004

Question 17

.If an algorithm's behavior is bounded by " $o(f(n))$ if $g(n)$ ", what notation does it become when the condition is removed?

Answer :

(A) $o(f(n))$

(B) $o(g(n))$

(C) $o(f(n) + g(n))$

(D) $o(f(n) * g(n))$

Question Id : 56

Option Id

56001

56002

56003

56004

Right Answer :
 $o(f(n))$

Right Option Id : 56001

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

Question Id : 39

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

Question Id : 38

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

Question Id : 37

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

Question Id : 17

Option Id

- ☐ 17001
- ☐ 17002
- ☐ 17003

(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

☐ 33001
- (B) Methods that have implementation details

☐ 33002
- (C) Methods without a body, defined in an abstract class

☐ 33003
- (D) Methods that cannot be inherited

☐ 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

Question Id : 32

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

Question Id : 31

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

Question Id : 30

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

Question Id : 29

Option Id

☐ 29001

☐ 29002

☐ 29003

(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) ϵ , 0011, 11001101

(D) ϵ , 0011, 11001100

Question Id : 26

Option Id

☐ 26001

☐ 26002

☐ 26003

☐ 26004

Right Answer :

ϵ , 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) ϵ

Right Answer :
 ϵ

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

- 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

- 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

- 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

- Option Id
- ☐ 93001
- ☐ 93002
- ☐ 93003
- ☐ 93004

Question Id : 93

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

☐ 90002
- (C) Observing

☐ 90003
- (D) All of the above

☐ 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

Right Answer :
All of the above

Question Id : 77

Option Id

☐ 77001

☐ 77002

☐ 77003

☐ 77004

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

Right Answer :
Reverse Auction

Question Id : 88

Option Id

☐ 88001

☐ 88002

☐ 88003

☐ 88004

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

Right Answer :
High

Question Id : 87

Option Id

☐ 87001

☐ 87002

☐ 87003

☐ 87004

Right Option Id : 87002

Question 91

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

Answer :

(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?

☐ 130001

(C) what is the definition of a verb?

☐ 130002

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

☐ 130003

☐ 130004

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

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

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

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

Option Id

☐ 116001

☐ 116002

☐ 116003

Question Id : 116

(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

- ☐ 110001
- ☐ 110002
- ☐ 110003
- ☐ 110004

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

- 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

- 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

- 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

- Option Id
- ☐ 114001
- ☐ 114002
- ☐ 114003

Question Id : 114

(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

Question Id : 136

Option Id

136001

136002

136003

136004

Right Answer :
5

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

Question Id : 135

Option Id

135001

135002

135003

135004

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

Right Option Id : 135002

Question 146

Monday : April : : Friday : ?

Answer :

(A) July

(B) Saturday

(C) August

(D) Tuesday

Question Id : 134

Option Id

134001

134002

134003

134004

Right Answer :
August

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

Question Id : 133

Option Id

133001

133002

133003

133004

Right Answer :
Heart

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

