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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

Question 1 **Question Id : 1**

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

Answer : Option Id

(A) A'B'C'D' + A'B'C'D + A'BC'D + AB'C'D + ABCD 1001

(B) A'B'C'D' + A'BC'D + AB'C'D + ABC'D + ABCD 1002

(C) A'B'C'D' + A'BC'D + ABC'D + ABCD 1003

(D) A'B'C'D' + A'BC'D' + A'BCD + ABCD 1004

Right Answer : **Right Option Id : 1001**

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

Question 2 **Question Id : 55**

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

Answer : Option Id

(A) AND gates and OR gates 55001

(B) NAND gates and XOR gates 55002

(C) NOR gates and XNOR gates 55003

(D) NOT gates and multiplexers 55004

Right Answer : **Right Option Id : 55001**

AND gates and OR gates

Question 3 **Question Id : 54**

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

Answer : Option Id

(A) Shift register 54001

(B) Parallel register 54002

(C) Accumulator register 54003

(D) Counter register 54004

Right Answer : **Right Option Id : 54003**

Accumulator register

Question 4 **Question Id : 53**

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

Answer : Option Id

(A) TTL 53001

(B) ECL 53002

(C) PMOS 53003

(D) CMOS 53004

Right Answer : **Right Option Id : 53004**

CMOS

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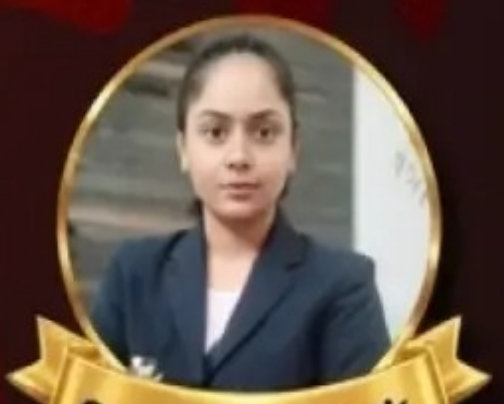
Gourav, NTPC

Sanni, NTPC

Abhishek, CTET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Question 5 **Question Id : 52**

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

Option Id

52001

52002

52003

52004

Right Answer : **Right Option Id : 52004**

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

Question 6 **Question Id : 51**

Given a Boolean function F(A, B, C) = Σ(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'

Option Id

51001

51002

51003

51004

Right Answer : **Right Option Id : 51001**

A'B' + AB' + AB + AC

Question 7 **Question Id : 50**

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

Option Id

50001

50002

50003

50004

Right Answer : **Right Option Id : 50002**

Add the carry to the least significant bit (LSB)

Question 8 **Question Id : 49**

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

Option Id

49001

49002

49003

49004

Right Answer : **Right Option Id : 49001**

Multiply the least significant bit (LSB) by the multiplier

Question 9 **Question Id : 48**

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

Answer :

Option Id

(A) Closer parity bits provide higher error correction capability — 48001

(B) Closer parity bits provide lower error correction capability — 48002

(C) Distance between parity bits has no impact on error correction capability — 48003

(D) The position of parity bits is irrelevant in Hamming Code — 48004

Right Answer : Closer parity bits provide lower error correction capability

Right Option Id : 48002

Question 10

Question Id : 47

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

Answer :

Option Id

(A) Subtraction method — 47001

(B) Addition method — 47002

(C) Exclusive OR (XOR) operation — 47003

(D) Division method — 47004

Right Answer : Exclusive OR (XOR) operation

Right Option Id : 47003

Question 11

Question Id : 46

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

Answer :

Option Id

(A) CPU — 46001

(B) ALU — 46002

(C) Memory — 46003

(D) Output devices — 46004

Right Answer : Memory

Right Option Id : 46003

Question 12

Question Id : 45

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

Answer :

Option Id

(A) In kilobytes (KB) — 45001

(B) In megahertz (MHz) — 45002

(C) In bits — 45003

(D) In address lines — 45004

Right Answer : In bits

Right Option Id : 45003

Question 13

Question Id : 44

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

Answer :

Option Id

(A) Operating systems for computers — 44001

(B) Entertainment systems in airplanes — 44002

(C) Engine control in cars

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44003

(D) Weather forecasting systems

44004

Right Answer : **Right Option Id : 44003**

Engine control in cars

Question 14 **Question Id : 43**

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

Answer : Option Id

(A) Arrays 43001

(B) Linked lists 43002

(C) Hash tables 43003

(D) Stacks 43004

Right Answer : **Right Option Id : 43003**

Hash tables

Question 15 **Question Id : 42**

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 : Option Id

(A) Greedy algorithm 42001

(B) Divide and conquer 42002

(C) Dynamic programming 42003

(D) Tradeoff 42004

Right Answer : **Right Option Id : 42004**

Tradeoff

Question 16 **Question Id : 41**

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

Answer : Option Id

(A) Analyzing algorithms with constant time complexity 41001

(B) The input size is fixed 41002

(C) The input data is random 41003

(D) Algorithm behavior varies based on certain input characteristics 41004

Right Answer : **Right Option Id : 41004**

Algorithm behavior varies based on certain input characteristics

---

Question 17 **Question Id : 56**

.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 : Option Id

(A) o(f(n)) 56001

(B) o(g(n)) 56002

(C) o(f(n) + g(n)) 56003

(D) o(f(n) * g(n)) 56004

Right Answer : **Right Option Id : 56001**

o(f(n))

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Question 18 **Question Id : 57**

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

Answer :

Option Id

(A) Divide and Conquer — 57001

(B) Greedy Algorithms — 57002

(C) Dynamic Programming — 57003

(D) Brute Force — 57004

Right Answer : **Right Option Id : 57001**

Divide and Conquer

Question 19 **Question Id : 58**

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

Answer :

Option Id

(A) Iteratively solving subproblems — 58001

(B) Recursively solving subproblems — 58002

(C) Using heuristics to find solutions — 58003

(D) Greedily combining solutions — 58004

Right Answer : **Right Option Id : 58002**

Recursively solving subproblems

Question 20 **Question Id : 67**

A threaded binary tree is a binary tree in which:

Answer :

Option Id

(A) Each node has two children — 67001

(B) Each node has at most one child — 67002

(C) Each node is connected to its parent — 67003

(D) Each node has a thread connecting it to its predecessor or successor — 67004

Right Answer : **Right Option Id : 67004**

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

Question 21 **Question Id : 73**

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

Answer :

Option Id

(A) DFS — 73001

(B) BFS — 73002

(C) Both DFS and BFS — 73003

(D) Neither DFS nor BFS — 73004

Right Answer : **Right Option Id : 73001**

DFS

Question 22 **Question Id : 72**

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

Answer :

Option Id

(A) (A, B)

(B) [A, B]

(C) <A, B>

(D) {A, B}

72001

72002

72003

72004

Right Answer :
(A, B)

Right Option Id : 72001

Question 23

Question Id : 71

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

Answer :

Option Id

(A) Linked lists

(B) Arrays

(C) Stacks

(D) Queues

71001

71002

71003

71004

Right Answer :
Linked lists

Right Option Id : 71001

Question 24

Question Id : 70

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

Answer :

Option Id

(A) Linear probing

(B) Quadratic probing

(C) Separate chaining

(D) Double hashing

70001

70002

70003

70004

Right Answer :
Linear probing

Right Option Id : 70001

Question 25

Question Id : 69

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

Answer :

Option Id

(A) n

(B) 2n

(C) 2^n - 1

(D) 2^n

69001

69002

69003

69004

Right Answer :
2^n - 1

Right Option Id : 69003

Question 26

Question Id : 68

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

Answer :

Option Id

(A) More recursive function calls

(B) Loops

(C) Additional memory allocation

68001

68002

68003

(D) Non-recursive function calls

68004

Right Answer :
Loops

Right Option Id : 68002

Question 27

Question Id : 66

A formal model of protection in an operating system provides:

Answer :

Option Id

(A) A mathematical framework for analyzing resource allocation

66001

(B) Guidelines for designing user interfaces

66002

(C) Methods for optimizing memory management

66003

(D) Techniques for improving CPU utilization

66004

Right Answer :
A mathematical framework for analyzing resource allocation

Right Option Id : 66001

Question 28

Question Id : 59

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

Answer :

Option Id

(A) Store files in memory

59001

(B) Store copies of frequently used files in memory

59002

(C) Store the operating system kernel

59003

(D) Store input/output devices

59004

Right Answer :
Store copies of frequently used files in memory

Right Option Id : 59002

Question 29

Question Id : 65

File manipulation operations in an operating system include:

Answer :

Option Id

(A) Allocating memory to files

65001

(B) Assigning file names to processes

65002

(C) Loading files into CPU registers

65003

(D) Reading, writing, and modifying file content

65004

Right Answer :
Reading, writing, and modifying file content

Right Option Id : 65004

Question 30

Question Id : 64

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

Answer :

Option Id

(A) Allocating memory for processes

64001

(B) Managing the file system

64002

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

64003

(D) Allocating CPU time to processes

64004

Right Answer :
Managing input/output operations between processes and input/output devices

Right Option Id : 64003

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Question 31 **Question Id : 63**

The primary goal of load control is to:

Answer :

Option Id

(A) Prevent processes from running concurrently — 63001

(B) Avoid context switching between processes — 63002

(C) Ensure that CPU time is evenly distributed among processes — 63003

(D) Maximize the usage of virtual memory — 63004

Right Answer : **Right Option Id : 63003**

Ensure that CPU time is evenly distributed among processes

Question 32 **Question Id : 62**

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

Answer :

Option Id

(A) Store pages of memory — 62001

(B) Manage input/output operations — 62002

(C) Translate virtual addresses to physical addresses — 62003

(D) Store program instructions — 62004

Right Answer : **Right Option Id : 62003**

Translate virtual addresses to physical addresses

Question 33 **Question Id : 61**

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

Answer :

Option Id

(A) Fragmentation — 61001

(B) Deadlock — 61002

(C) Priority inversion — 61003

(D) Starvation — 61004

Right Answer : **Right Option Id : 61001**

Fragmentation

Question 34 **Question Id : 60**

What is DBMS?

Answer :

Option Id

(A) DBMS is a collection of queries — 60001

(B)) DBMS is a high-level language — 60002

(C) DBMS is a programming language — 60003

(D) DBMS stores, modifies and retrieves data — 60004

Right Answer : **Right Option Id : 60004**

DBMS stores, modifies and retrieves data

Question 35 **Question Id : 40**

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

Answer :

Option Id

(A) Pointers are used to maintain transactional integrity and consistency — 40001

(B) Cursors are used to maintain transactional integrity and consistency — 40002

(C) Locks are used to maintain transactional integrity and consistency — 40003

(D) Triggers are used to maintain transactional integrity and consistency — 40004

Right Answer : **Right Option Id : 40003**

Locks are used to maintain transactional integrity and consistency

Question 36 **Question Id : 39**

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

Answer :

Option Id

(A) New Technology File System — 39001

(B) New Tree File System — 39002

(C) New Table type File System — 39003

(D) Both A and C — 39004

Right Answer : **Right Option Id : 39001**

New Technology File System

Question 37 **Question Id : 38**

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 :

Option Id

(A) Aggregation — 38001

(B) Generalization — 38002

(C) Specialization — 38003

(D) All of the above — 38004

Right Answer : **Right Option Id : 38003**

Specialization

Question 38 **Question Id : 37**

The term "DFD" stands for?

Answer :

Option Id

(A) Data file diagram — 37001

(B) Data flow document — 37002

(C) Data flow diagram — 37003

(D) None of the above — 37004

Right Answer : **Right Option Id : 37003**

Data flow diagram

Question 39 **Question Id : 17**

The term "FAT" is stands for_____

Answer :

Option Id

(A) File Allocation Tree — 17001

(B) File Allocation Table — 17002

(C) File Allocation Graph — 17003

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(D) All of the above

17004

Right Answer :
File Allocation Table

Right Option Id : 17002

Question 40

Question Id : 16

The term "Data" refers to:

Answer :

Option Id

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

16001

(B) Basic information

16002

(C) Row Facts and figures

16003

(D) Both A and C

16004

Right Answer :
Row Facts and figures

Right Option Id : 16003

Question 41

Question Id : 15

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

Answer :

Option Id

(A) Data framing

15001

(B) Error correction

15002

(C) Finding the best path for data

15003

(D) Flow control

15004

Right Answer :
Finding the best path for data

Right Option Id : 15003

Question 42

Question Id : 14

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

Answer :

Option Id

(A) A hardware device for data transmission

14001

(B) A software interface for network communication

14002

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

14003

(D) type of network topology

14004

Right Answer :
A software interface for network communication

Right Option Id : 14002

Question 43

Question Id : 13

Data transmission using multiple pathways simultaneously is known as:

Answer :

Option Id

(A) Parallel Transmission

13001

(B) Serial Transmission

13002

(C) Duplex Transmission

13003

(D) Half-duplex Transmission

13004

Right Answer :
Parallel Transmission

Right Option Id : 13001

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Question 44 **Question Id : 12**

Which of the following is NOT a network topology?

Answer :

(A) Star

(B) Ring

(C) Disk

(D) Mesh

Option Id

12001

12002

12003

12004

Right Answer : **Right Option Id : 12003**

Disk

Question 45 **Question Id : 11**

Contention-based MAC protocols are commonly used in:

Answer :

(A) Ethernet networks

(B) Token Ring networks

(C) ATM networks

(D) Point-to-Point networks

Option Id

11001

11002

11003

11004

Right Answer : **Right Option Id : 11001**

Ethernet networks

Question 46 **Question Id : 10**

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

Option Id

10001

10002

10003

10004

Right Answer : **Right Option Id : 10003**

Determining the best path for data packets

Question 47 **Question Id : 9**

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

Option Id

9001

9002

9003

9004

Right Answer : **Right Option Id : 9003**

To map MAC addresses to IP addresses

Question 48 **Question Id : 8**

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

Answer :

Option Id

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(A) Waterfall model

(B) Prototype model

(C) Spiral model

(D) Agile model

8001
8002
8003
8004

Right Answer : Spiral model

Right Option Id : 8003

Question 49

Question Id : 7

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

Option Id
7001
7002
7003
7004

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

Right Option Id : 7003

Question 50

Question Id : 6

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

Option Id
6001
6002
6003
6004

Right Answer : Understanding and documenting existing software

Right Option Id : 6003

Question 51

Question Id : 5

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

Answer :

(A) Integration Testing

(B) System Testing

(C) Unit Testing

(D) Acceptance Testing

Option Id
5001
5002
5003
5004

Right Answer : Unit Testing

Right Option Id : 5003

Question 52

Question Id : 4

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

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

Question Id : 3

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

Answer :

Option Id

(A) Cyclomatic Complexity

3001

(B) Function Points (FP)

3002

(C) Defect Density

3003

(D) Software Reliability Index

3004

Right Answer :

Function Points (FP)

Right Option Id : 3002

Question 54

Question Id : 18

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

Answer :

Option Id

(A) To determine the number of hardware components required

18001

(B) To identify potential risks in the project

18002

(C) To allocate appropriate resources to the project

18003

(D) To estimate the maintenance costs of the software

18004

Right Answer :

To identify potential risks in the project

Right Option Id : 18002

Question 55

Question Id : 2

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

Answer :

Option Id

(A) alloc

2001

(B) new

2002

(C) create

2003

(D) instance

2004

Right Answer :

new

Right Option Id : 2002

Question 56

Question Id : 19

What is an abstract class in OOP?

Answer :

Option Id

(A) A class with no methods

19001

(B) A class that cannot be instantiated

19002

(C) A class that can only have private members

19003

(D) A class that cannot have methods with parameters

19004

Right Answer :

A class that cannot be instantiated

Right Option Id : 19002

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Question 57 **Question Id : 21**

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

Answer : Option Id

(A) It refers to the superclass in inheritance — 21001

(B) It creates a new object instance — 21002

(C) It defines a new class — 21003

(D) It handles exceptions — 21004

Right Answer : **Right Option Id : 21001**

It refers to the superclass in inheritance

Question 58 **Question Id : 36**

Which of the following best defines a class?

Answer : Option Id

(A) An instance of an object — 36001

(B) A blueprint for creating objects — 36002

(C) A variable holding data — 36003

(D) A function with a return value — 36004

Right Answer : **Right Option Id : 36002**

A blueprint for creating objects

Question 59 **Question Id : 35**

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

Answer : Option Id

(A) Polymorphism — 35001

(B) Information hiding — 35002

(C) Encapsulation — 35003

(D) Abstraction — 35004

Right Answer : **Right Option Id : 35002**

Information hiding

Question 60 **Question Id : 34**

What is the main purpose of inheritance in OOP?

Answer : Option Id

(A) To create instances of classes — 34001

(B) To prevent data abstraction — 34002

(C) To establish a parent-child relationship between classes — 34003

(D) To define exceptions — 34004

Right Answer : **Right Option Id : 34003**

To establish a parent-child relationship between classes

Question 61 **Question Id : 33**

What are abstract methods?

Answer : 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

Question Id : 32

Which protocol is commonly used for sending emails?

Answer :

Option Id

(A) .HTTPS

(B) FTP

(C) SMTP

(D) TCP

32001
32002
32003
32004

Right Answer :
SMTP

Right Option Id : 32003

Question 63

Question Id : 31

What does CSS stand for?

Answer :

Option Id

(A) Cascading Style System

(B) Creative Styling Script

(C) Computer Style Sheets

(D) Cascading Style Sheets

31001
31002
31003
31004

Right Answer :
Cascading Style Sheets

Right Option Id : 31004

Question 64

Question Id : 30

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

Answer :

Option Id

(A) JavaFX

(B) Bootstrap

(C) React

(D) jQuery

30001
30002
30003
30004

Right Answer :
jQuery

Right Option Id : 30004

Question 65

Question Id : 29

What does AJAX stand for?

Answer :

Option Id

(A) Asynchronous JavaScript and XML

(B) Automated JavaScript and XHTML

(C) Advanced JavaScript and XML

29001
29002
29003

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(D) Asynchronous JSON and XHTML

29004

Right Answer :
Asynchronous JavaScript and XML

Right Option Id : 29001

Question 66

Question Id : 28

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

Answer :

Option Id

(A) In alphabetical order

28001

(B) Based on the element's size

28002

(C) In a parent-child relationship

28003

(D) According to the element's color

28004

Right Answer :
In a parent-child relationship

Right Option Id : 28003

Question 67

Question Id : 27

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

Answer :

Option Id

(A) id

27001

(B) class

27002

(C) name

27003

(D) tag

27004

Right Answer :
id

Right Option Id : 27001

Question 68

Question Id : 26

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 :

Option Id

(A) 01, 0011,010101

26001

(B) 0011, 11001100

26002

(C) ε, 0011, 11001101

26003

(D) ε, 0011, 11001100

26004

Right Answer :
ε, 0011, 11001100

Right Option Id : 26004

Question 69

Question Id : 25

A Language for which DFA exist is a_____

Answer :

Option Id

(A) Regular Language

25001

(B) Non-Regular Language

25002

(C) Any language

25003

(D) Cannot be said

25004

Right Answer :
Regular Language

Right Option Id : 25001

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Question 70 **Question Id : 24**

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-1v-1

(D) ε

Option Id

24001

24002

24003

24004

Right Answer : **Right Option Id : 24004**

ε

Question 71 **Question Id : 23**

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

Option Id

23001

23002

23003

23004

Right Answer : **Right Option Id : 23003**

0,1,2

Question 72 **Question Id : 22**

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

Answer :

(A) 3

(B) 2

(C) 1

(D) can't be represented

Option Id

22001

22002

22003

22004

Right Answer : **Right Option Id : 22002**

2

Question 73 **Question Id : 74**

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

Option Id

74001

74002

74003

74004

Right Answer : **Right Option Id : 74001**

64

Question 74 **Question Id : 20**

The class of CFG is not closed under

Answer :

(A) Concatenation

Option Id

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(B) Intersection

(C) Union

(D) Repeated Concatenation.

20001
20002
20003
20004

Right Answer : Repeated Concatenation.

Right Option Id : 20004

Question 75

Question Id : 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

Question Id : 78

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

Question Id : 92

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

Question Id : 93

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

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Right Answer :
Wireless Sensor Protocol

Right Option Id : 93002

Question 79

Question Id : 94

A complex SCADA system has _____levels?

Answer :

Option Id

(A) 6 — 94001

(B) 5 — 94002

(C) 3 — 94003

(D) 4 — 94004

Right Answer :
4

Right Option Id : 94004

Question 80

Question Id : 97

What is the role of the MISO pin in the RFID Module?

Answer :

Option Id

(A) Master In Slave Out — 97001

(B) Manage Internal Slave Output — 97002

(C) Master Internal Search Optimization — 97003

(D) Manage Input Slave Op — 97004

Right Answer :
Master In Slave Out

Right Option Id : 97001

Question 81

Question Id : 96

Who is known as the father of AI?

Answer :

Option Id

(A) Fisher Ada — 96001

(B) Alan Turing — 96002

(C) John McCarthy — 96003

(D) Allen Newell — 96004

Right Answer :
John McCarthy

Right Option Id : 96003

Question 82

Question Id : 91

Programming language commonly used for AI is___?

Answer :

Option Id

(A) Lisp — 91001

(B) Perl — 91002

(C) Prolog — 91003

(D) C++ — 91004

Right Answer :
Perl

Right Option Id : 91002

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Question 83 **Question Id : 98**

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

Answer : Option Id

(A) Heuristic Search Algorithm — 98001

(B) DFS/ BFL algorithm — 98002

(C) Greedy Search algorithm — 98003

(D) Min/Max algorithm — 98004

Right Answer : **Right Option Id : 98004**

Min/Max algorithm

Question 84 **Question Id : 99**

Uniform-cost search expands the node n with the _____

Answer : Option Id

(A) Lowest path cost — 99001

(B) Heuristic cost — 99002

(C) Highest path cost — 99003

(D) Average path cost — 99004

Right Answer : **Right Option Id : 99001**

Lowest path cost

Question 85 **Question Id : 100**

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

Answer : Option Id

(A) Extraction — 100001

(B) Abstraction — 100002

(C) Data Mining — 100003

(D) Information Retrieval — 100004

Right Answer : **Right Option Id : 100002**

Abstraction

Question 86 **Question Id : 95**

What does a first order predicate logic contain?

Answer : Option Id

(A) Predicate and a subject — 95001

(B) Predicate and a Preposition — 95002

(C) Subject and an object — 95003

(D) None of the above — 95004

Right Answer : **Right Option Id : 95001**

Predicate and a subject

Question 87 **Question Id : 90**

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

Answer : Option Id

(A) Precision — 90001

(B) Learning

(C) Observing

(D) All of the above

90002

90003

90004

Right Answer :
Learning

Right Option Id : 90002

Question 88

Question Id : 77

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

Answer :

Option Id

(A) B2B

77001

(B) B2C

77002

(C) C2B

77003

(D) All of the above

77004

Right Answer :
All of the above

Right Option Id : 77004

Question 89

Question Id : 88

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 :

Option Id

(A) B2B Marketplace

88001

(B) Auction

88002

(C) Reverse Auction

88003

(D) Intranet

88004

Right Answer :
Reverse Auction

Right Option Id : 88003

Question 90

Question Id : 87

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

Answer :

Option Id

(A) Low

87001

(B) High

87002

(C) Moderate

87003

(D) Negligible

87004

Right Answer :
High

Right Option Id : 87002

Question 91

Question Id : 89

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

Answer :

Option Id

(A) Customization

89001

(B) Adaptation

89002

(C) Direct material

89003

(D) Auction

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89004

Right Answer :
Customization

Right Option Id : 89001

Question 92

Question Id : 86

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

Answer :

(A) Horizontal

(B) Vertical

(C) integrated

(D) isolated

Option Id

86001

86002

86003

86004

Right Answer :
Vertical

Right Option Id : 86002

Question 93

Question Id : 85

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

Option Id

85001

85002

85003

85004

Right Answer :
All of the above

Right Option Id : 85004

Question 94

Question Id : 84

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

Answer :

(A) Stream delay

(B) Playback delay

(C) Jitter

(D) Event delay

Option Id

84001

84002

84003

84004

Right Answer :
Jitter

Right Option Id : 84003

Question 95

Question Id : 76

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

Option Id

76001

76002

76003

76004

Right Answer :
server breaks down the connection

Right Option Id : 76004

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Question 96 **Question Id : 83**

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

Option Id

83001

83002

83003

83004

Right Answer : **Right Option Id : 83004**

packets

Question 97 **Question Id : 82**

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

Option Id

82001

82002

82003

82004

Right Answer : **Right Option Id : 82001**

8 bits per sample

Question 98 **Question Id : 81**

Audio compression can be used for_____

Answer :

(A) voice and data

(B) video and voice

(C) speech or music

(D) picture and colors

Option Id

81001

81002

81003

81004

Right Answer : **Right Option Id : 81003**

speech or music

Question 99 **Question Id : 80**

Each ___ represents a particular colour.

Answer :

(A) Frame

(B) Character

(C) Pixel value

(D) None of the above

Option Id

80001

80002

80003

80004

Right Answer : **Right Option Id : 80003**

Pixel value

Question 100 **Question Id : 79**

_____ is basically a form of pictorial presentation.

Answer :

(A) Photography

Option Id

79001

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(B) Animations

(C) Drawing

(D) Creativity

79002

79003

79004

Right Answer :
Animations

Right Option Id : 79002

Art Of Teaching

Question 101

Question Id : 120

The main aim of classroom teaching is

Answer :

(A) to give information

(B) help to pass examination

(C) syllabus coverage

(D) to develop personality

Option Id

120001

120002

120003

120004

Right Answer :
to develop personality

Right Option Id : 120004

Question 102

Question Id : 121

To ensure participation of students we use

Answer :

(A) demonstration

(B) little man's lecture

(C) discussion

(D) illustration

Option Id

121001

121002

121003

121004

Right Answer :
discussion

Right Option Id : 121003

Question 103

Question Id : 125

learning through independent effort is

Answer :

(A) autonomous learning

(B) autocratic learning

(C) democratic learning

(D) all the above

Option Id

125001

125002

125003

125004

Right Answer :
autonomous learning

Right Option Id : 125001

Question 104

Question Id : 123

Aims

Answer :

(A) may include abstract concepts

(B) difficult to measure

(C) may include appreciation

Option Id

123001

123002

123003

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(D) All the above

123004

Right Answer :
All the above

Right Option Id : 123004

Question 105

Question Id : 124

psychomotor domain relates to

Answer :

Option Id

(A) map making

124001

(B) project making

124002

(C) playing

124003

(D) all the above

124004

Right Answer :
all the above

Right Option Id : 124004

Question 106

Question Id : 119

Heuristic means

Answer :

Option Id

(A) to invertigate

119001

(B) to show

119002

(C) to do

119003

(D) to act

119004

Right Answer :
to invertigate

Right Option Id : 119001

Question 107

Question Id : 117

Armstrong gifted teaching with

Answer :

Option Id

(A) Project method

117001

(B) heuristic method

117002

(C) team teaching

117003

(D) blended method

117004

Right Answer :
heuristic method

Right Option Id : 117002

Question 108

Question Id : 126

Set induction relates to

Answer :

Option Id

(A) previous knowledge

126001

(B) new knowledge

126002

(C) specific objectives

126003

(D) statement of aim

126004

Right Answer :
previous knowledge

Right Option Id : 126001

Question 109 **Question Id : 127**

Diadactic teaching materials was introduced by

Answer :

Option Id

(A) Pestalozzi — 127001

(B) froebel — 127002

(C) Montessori — 127003

(D) Dewey — 127004

Right Answer : **Right Option Id : 127003**

Montessori

Question 110 **Question Id : 128**

The centre point of a lesson plan is

Answer :

Option Id

(A) principal — 128001

(B) teacher — 128002

(C) student — 128003

(D) none of the above — 128004

Right Answer : **Right Option Id : 128003**

student

Question 111 **Question Id : 129**

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

Answer :

Option Id

(A) interpersonal; linguistic — 129001

(B) linguistic; interpersonal — 129002

(C) spatial; intrapersonal — 129003

(D) intrapersonal; spatial — 129004

Right Answer : **Right Option Id : 129004**

intrapersonal; spatial

Question 112 **Question Id : 108**

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

Answer :

Option Id

(A) I failed the test because my friends were distracting me. — 108001

(B) I received a low grade because the teacher is a tough grader. — 108002

(C) I failed the test because I didn't study enough. — 108003

(D) I didn't get good marks because the teacher was biased. — 108004

Right Answer : **Right Option Id : 108003**

I failed the test because I didn't study enough.

Question 113 **Question Id : 130**

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

Answer :

Option Id

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

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130001

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

130002

(C) what is the definition of a verb?

130003

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

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

Question Id : 122

Micro teaching is more effective

Answer :

Option Id

(A) always

122001

(B) after the teaching-practice

122002

(C) during the teaching-practice

122003

(D) during the preparation for teaching-practice

122004

Right Answer :
during the teaching-practice

Right Option Id : 122003

Question 115

Question Id : 118

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

Answer :

Option Id

(A) Brevity

118001

(B) Objectivity

118002

(C) Adventure

118003

(D) Sharp memory

118004

Right Answer :
Objectivity

Right Option Id : 118002

Question 116

Question Id : 115

Library man Provide

Answer :

Option Id

(A) Physical mateial

115001

(B) Digital material

115002

(C) Both A & B

115003

(D) None of these

115004

Right Answer :
Both A & B

Right Option Id : 115003

Question 117

Question Id : 116

Which of the following components are essential for library?

Answer :

Option Id

(A) Learning

116001

(B) Walking

116002

(C) Playing

116003

(D) None of these

116004

Right Answer :
Learning

Right Option Id : 116001

Question 118

Question Id : 101

A teacher should ask-

Answer :

Option Id

(A) meaningful question

101001

(B) maximum number of question in a fixed time

101002

(C) as many question as possible

101003

(D) None of these

101004

Right Answer :
meaningful question

Right Option Id : 101001

Question 119

Question Id : 102

Which of the following important cause of failure for teacher?

Answer :

Option Id

(A) interpersonal relationship

102001

(B) verbal ability

102002

(C) lack of command over the knowledge of subject

102003

(D) None of the above

102004

Right Answer :
lack of command over the knowledge of subject

Right Option Id : 102003

Question 120

Question Id : 104

Teacher should master during his teaching period

Answer :

Option Id

(A) in one of the teaching method

104001

(B) equally acros all teaching method

104002

(C) Both A & B

104003

(D) None of these

104004

Right Answer :
equally acros all teaching method

Right Option Id : 104002

Question 121

Question Id : 105

Knowledge is-

Answer :

Option Id

(A) Information

105001

(B) Application

105002

(C) Analysis

105003

(D) Understanding

105004

Right Answer :
Information

Right Option Id : 105001

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Question 122 **Question Id : 106**

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

Option Id

106001

106002

106003

106004

Right Answer : **Right Option Id : 106003**

During the teaching learning process

Question 123 **Question Id : 107**

Which technique is used for evaluation of interest?

Answer :

(A) Observation technique

(B) Check list

(C) Rating scale

(D) Projective Technique

Option Id

107001

107002

107003

107004

Right Answer : **Right Option Id : 107003**

Rating scale

Question 124 **Question Id : 103**

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

Answer :

(A) Subject-centered

(B) Problem Centered

(C) Learner-Centered

(D) Teacher-Centered

Option Id

103001

103002

103003

103004

Right Answer : **Right Option Id : 103004**

Teacher-Centered

Question 125 **Question Id : 109**

Which of the following is not the nature of curriculum?

Answer :

(A) Critical

(B) Creative

(C) Conservative

(D) Active

Option Id

109001

109002

109003

109004

Right Answer : **Right Option Id : 109004**

Active

Question 126 **Question Id : 110**

The biggest challenge before democracy is -

Answer :

(A) Fundamentalism

Option Id

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(B) Castism

(C) Regionalism

(D) All the above

110001

110002

110003

110004

Right Answer :
Fundamentalism

Right Option Id : 110001

Question 127

Question Id : 111

A teacher shoul behave with all the student as -

Answer :

Option Id

(A) as a friend

(B) as a master

(C) equally

(D) personally

111001

111002

111003

111004

Right Answer :
as a friend

Right Option Id : 111001

Question 128

Question Id : 112

Failure can be our best teacher if-

Answer :

Option Id

(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

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

Question Id : 113

Chal-Board is a kind of teaching aid-

Answer :

Option Id

(A) Visual

(B) Audio

(C) Audio-Visual

(D) All of the above

113001

113002

113003

113004

Right Answer :
Visual

Right Option Id : 113001

Question 130

Question Id : 114

Television is

Answer :

Option Id

(A) Visual aid

(B) Audio-visual aid

(C) Audio aid

114001

114002

114003

(D) None of the above

114004

Right Answer :
Audio-visual aid

Right Option Id : 114002

Other Skills

Question 131

Question Id : 149

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

Answer :

Option Id

(A) Santhals

149001

(B) Ahoms

149002

(C) Pagal Panthis

149003

(D) Ramosi

149004

Right Answer :
Santhals

Right Option Id : 149001

Question 132

Question Id : 148

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 :

Option Id

(A) About 5.00 a.m.

148001

(B) About 6.20 a.m.

148002

(C) About 7.30 a.m.

148003

(D) About 7.00 a.m.

148004

Right Answer :
About 7.00 a.m.

Right Option Id : 148004

Question 133

Question Id : 147

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

Answer :

Option Id

(A) 10%

147001

(B) 15%

147002

(C) 20%

147003

(D) 25%

147004

Right Answer :
10%

Right Option Id : 147001

Question 134

Question Id : 146

Who among the following was not related to Champaran Satyagraha?

Answer :

Option Id

(A) Dr. Rajendra Prasad

146001

(B) Anugrah Narayan Singh

146002

(C) JB Kriplani

146003

(D) Jai Prakash Narayan

146004

Right Answer :
Jai Prakash Narayan

Right Option Id : 146004

Question 135 **Question Id : 145**

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

Answer :

Option Id

(A) Uttar Pradesh — 145001

(B) Bihar — 145002

(C) West Bengal — 145003

(D) Odisha — 145004

Right Answer : **Right Option Id : 145003**

West Bengal

Question 136 **Question Id : 144**

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

Answer :

Option Id

(A) Sound energy — 144001

(B) Light energy — 144002

(C) Chemical energy — 144003

(D) Muscular energy — 144004

Right Answer : **Right Option Id : 144004**

Muscular energy

Question 137 **Question Id : 143**

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

Answer :

Option Id

(A) Ponni rice — 143001

(B) Bora rice — 143002

(C) Arborio rice — 143003

(D) Bomba rice — 143004

Right Answer : **Right Option Id : 143002**

Bora rice

Question 138 **Question Id : 142**

When we burn fuels, we get :

Answer :

Option Id

(A) Light and sound energy — 142001

(B) Only light energy — 142002

(C) Heat and light energy — 142003

(D) Mechanical and Light energy — 142004

Right Answer : **Right Option Id : 142003**

Heat and light energy

Question 139 **Question Id : 141**

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

Answer :

Option Id

(A) They chew up their prey

141001

(B) They swallow their food whole

141002

(C) Snakes have sharp teeth

141003

(D) Poisonous snakes have fangs.

141004

Right Answer :

They chew up their prey

Right Option Id : 141001

Question 140

Question Id : 131

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

Answer :

Option Id

(A) North-West; Saouth-East

131001

(B) North-West; South-West

131002

(C) North-East; South-West

131003

(D) North-East; South-East

131004

Right Answer :

North-East; South-East

Right Option Id : 131004

Question 141

Question Id : 139

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

Answer :

Option Id

(A) Cube, Cuboid, Sphere, Cylinder

139001

(B) Cube, Cuboid, Semi-Circle, Cone

139002

(C) Cube, Cuboid, Circle, Cone

139003

(D) Cube, Cuboid, Circle, Triangle

139004

Right Answer :

Cube, Cuboid, Sphere, Cylinder

Right Option Id : 139001

Question 142

Question Id : 138

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

Answer :

Option Id

(A) 25

138001

(B) 36

138002

(C) 28

138003

(D) 32

138004

Right Answer :

28

Right Option Id : 138003

Question 143

Question Id : 137

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 :

Option Id

(A) 100

137001

(B) 200

137002

(C) 0

137003

(D) 50

137004

Right Answer :
200

Right Option Id : 137002

Question 144

Question Id : 136

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

Answer :

Option Id

(A) 5

136001

(B) 15

136002

(C) 0

136003

(D) -5

136004

Right Answer :
5

Right Option Id : 136001

Question 145

Question Id : 135

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

Answer :

Option Id

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

135001

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

135002

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

135003

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

135004

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

Right Option Id : 135002

Question 146

Question Id : 134

Monday : April : : Friday : ?

Answer :

Option Id

(A) July

134001

(B) Saturday

134002

(C) August

134003

(D) Tuesday

134004

Right Answer :
August

Right Option Id : 134003

Question 147

Question Id : 133

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

Answer :

Option Id

(A) Kidney

133001

(B) Heart

133002

(C) Lung

133003

(D) Ear

133004

Right Answer :
Heart

Right Option Id : 133002

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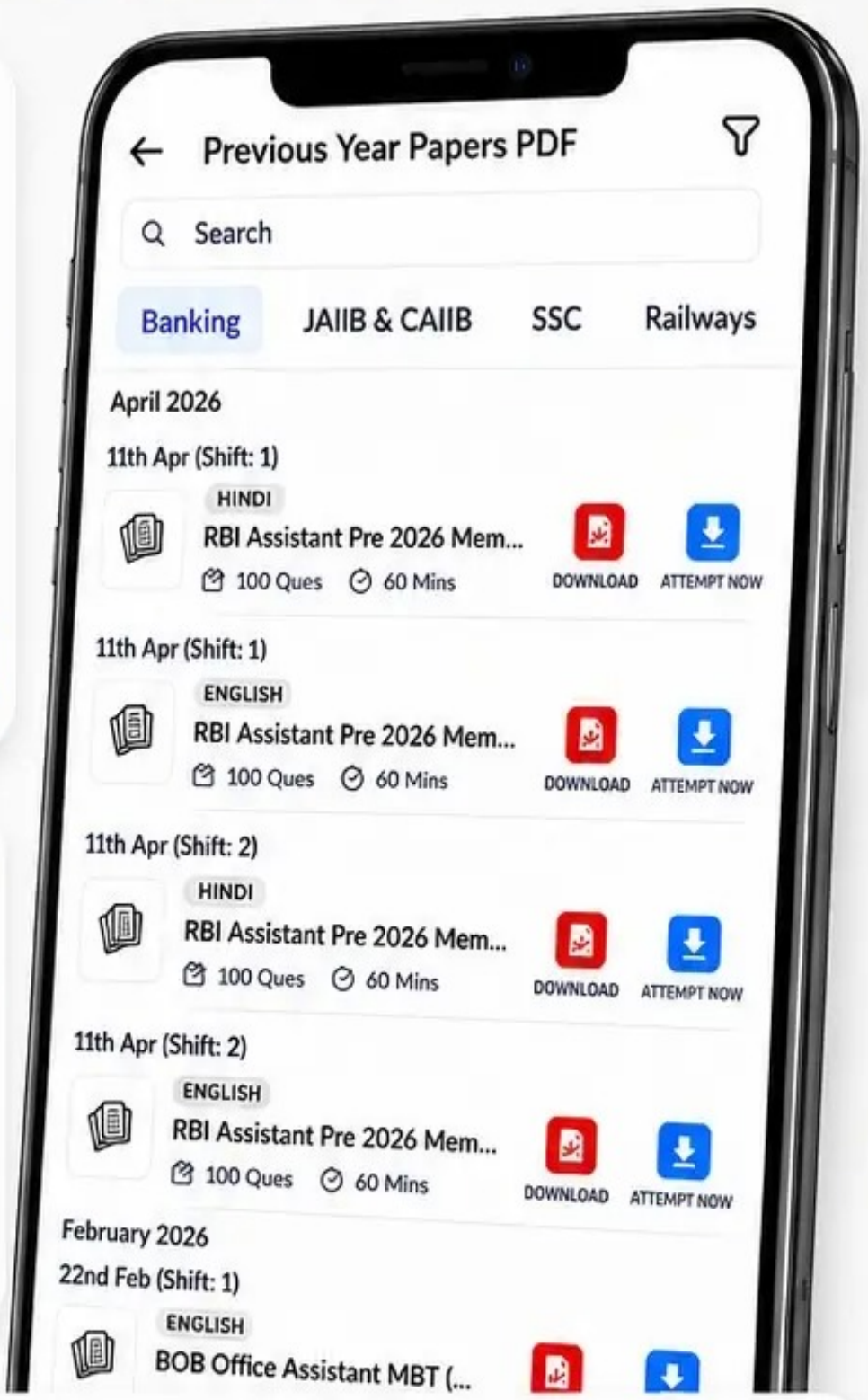

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Shivam, UPSSSC AGTA

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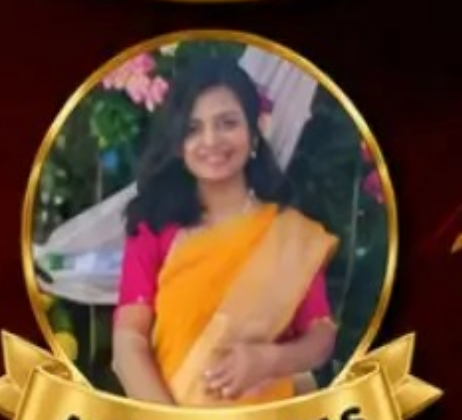
Arpita, JENPAS

Shital, SSC JE (Mech)

Nancy, UGC NET

Atul, SSC JE (ELCT)

Rahul, SSC JE (CIVIL)

Anand, SSC JE (ELCT)

Mohan, SSC JE (ELCT)

Saurabh, UGC NET

Ved, SSC JE (Mech)

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Question 148 **Question Id : 132**

60,30,120,15,240?

Answer :

(A) 30

(B) 120

(C) 140

(D) 71/2

Option Id

132001

132002

132003

132004

Right Answer : **Right Option Id : 132004**

71/2

Question 149 **Question Id : 140**

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

Option Id

140001

140002

140003

140004

Right Answer : **Right Option Id : 140001**

ORUV

Question 150 **Question Id : 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

Option Id

150001

150002

150003

150004

Right Answer : **Right Option Id : 150001**

Aunt