Question 1

Not yet answered

Marked out of 1.00

A man spends 80% of his income. If his income increases by 25%, what is the percentage increase in savings?

- a. 100%
- b. 25%
- c. 400%
- d. 200%

Question 2

Not yet answered

Marked out of 1.00

A number is increased by 20% and then decreased by 20%. What is the net change?

- a. 4% increase
- b. 4% decrease
- c. 0%
- d. 8% decrease

Question 3

Not yet answered

Marked out of 1.00

A sum amounts to ₹8820 in 2 years at 10% compound interest. What is the principal? (Approxmately)

- a. ₹8000
- b. ₹8500
- c. ₹7200
- d. ₹8800

Question 4

Not yet answered

Marked out of 1.00

A train 100 m long passes a man standing on the platform in 10 seconds. What is the speed in km/h?

- a. 18
- b. 60
- c. 72
- d. 36

Question 5

Not yet answered

Marked out of 1.00

How many 3-digit numbers are divisible by 7?

- a. 130
- b. 131
- c. 129
- d. 128

Question 6

Not yet answered

Marked out of 1.00

If 3 workers can do a job in 8 days, how many days will 6 workers take?

- a. 12
- b. 6
- c. 8
- d. 4

Question 7

Not yet answered

Marked out of 1.00

If x : y = 3 : 5 and y : z = 10 : 7, then x : z = ?

- a. 6:7
- b. 3:10
- c. 2:5
- d. 3:7

Question 8

Not yet answered

Marked out of 1.00

The average of 10 numbers is 50. If one number is excluded, the average becomes 48. What is the excluded number?

- a. 48
- b. 68
- c. 70
- d. 30

Question 9

Not yet answered

Marked out of 1.00

What is the smallest number that when divided by 8, 12, and 20 leaves a remainder of 5?

- a. 165
- b. 65
- c. 245
- d. 125

Question 10

Not yet answered

Marked out of 1.00

What is the unit digit of 7^103?

- a. 3
- b. 1
- c. 7
- d. 9

Question 11

Not yet answered

Marked out of 1.00

Complete the series: 2, 6, 12, 20, 30, ?

- a. 40
- b. 50
- c. 36
- d. 42

Question 12

Not yet answered

Marked out of 1.00

Find the odd one out:

- a. Triangle
- b. Sphere
- c. Circle
- d. Square

Question 13

Not yet answered

Marked out of 1.00

If ALL PEN ARE BLUE and SOME BLUE ARE CUPS, which is true?

- a. Some cups may be blue
- b. No pen is a cup
- c. Some cups are pens
- d. All pens are cups

Question 14

Not yet answered

Marked out of 1.00

If in a code: DOG = 4157 and CAT = 3120, what is GOD?

- a. 7514
- b. 7415
- c. 7541
- d. 7154

Question 15

Not yet answered

Marked out of 1.00

If TABLE is coded as UCCNG, how is CHAIR coded?

- a. DIBJS
- b. EJBKT
- c. EJCKS
- d. DICJS

Question 16

Not yet answered

Marked out of 1.00

If TODAY is coded as WRGDB, what is the code for NIGHT?

- a. QLJKT
- b. PLHFT
- c. QLJFW
- d. OJHET

Question 17

Not yet answered

Marked out of 1.00

In a row of students, Raj is 15th from left and 20th from right. How many students are there?

- a. 34
- b. 35
- c. 36
- d. 33

Question 18

Not yet answered

Marked out of 1.00

Statement: All flowers are trees. Some trees are plants. Conclusion?

- a. Some trees are flowers
- b. All plants are trees
- c. Some flowers are plants
- d. None follow

Question 19

Not yet answered

Marked out of 1.00

What comes next? AZ, BY, CX, DW, ?

- a. EU
- b. EV
- c. EY
- d. EX

Question 20

Not yet answered

Marked out of 1.00

Which of the following is a mirror image of 256 at 6:00 position?

- a. 652
- b. 652
- c. 925
- d. 956

Question 21

Not yet answered

Marked out of 1.00

A graph with no cycles and exactly one path between any two nodes is:

- a. DAG
- b. Complete graph
- c. Bipartite graph
- d. Tree

Question 22

Not yet answered

Marked out of 1.00

In a min-heap, the largest element is always in:

- a. Leaf node
- b. Root
- c. Left child
- d. Right child

Question 23

Not yet answered

Marked out of 1.00

What is the time complexity of searching an element in a balanced binary search tree (e.g., AVL Tree)?

- a. O(log n)
- b. O(1)
- c. O(n log n)
- d. O👎

Question 24

Not yet answered

Marked out of 1.00

What is the worst-case time complexity of QuickSort?

- a. O👎
- b. O(n log n)
- c. O(n^2)
- d. O(log n)

Question 25

Not yet answered

Marked out of 1.00

Which data structure allows O(1) insertion, deletion, and access?

- a. Linked List
- b. Hash Table
- c. Queue
- d. Array

Question 26

Not yet answered

Marked out of 1.00

Which data structure is best suited for implementing recursion?

- a. Queue
- b. Array
- c. Stack
- d. Linked List

Question 27

Not yet answered

Marked out of 1.00

Which of the following is not true about a circular queue?

- a. Prevents overflow
- b. Allows insertion at front
- c. Memory efficient
- d. Reuses space

Question 28

Not yet answered

Marked out of 1.00

Which of these algorithms is used for cycle detection in a graph?

- a. Dijkstra's
- b. Kruskal's
- c. DFS
- d. BFS

Question 29

Not yet answered

Marked out of 1.00

Which technique is used in B-trees for maintaining balance?

- a. Splitting
- b. Merging
- c. Both B and C
- d. Rotation

Question 30

Not yet answered

Marked out of 1.00

Which traversal method is best to sort a BST?

- a. Level-order
- b. In-order
- c. Post-order
- d. Pre-order

Question 31

Not yet answered

Marked out of 1.00

A relation is in BCNF if:

- a. Every functional dependency is trivial
- b. It is in 2NF
- c. Every non-prime attribute is fully functionally dependent on a candidate key
- d. It is in 3NF and every determinant is a candidate key

Question 32

Not yet answered

Marked out of 1.00

The command to remove a table from a database is:

- a. TRUNCATE
- b. REMOVE
- c. DROP
- d. DELETE

Question 33

Not yet answered

Marked out of 1.00

What is the purpose of the ROLLBACK command?

- a. Save changes
- b. Create a checkpoint
- c. Revert to last commit
- d. Revert entire schema

Question 34

Not yet answered

Marked out of 1.00

What is the result of a natural join between two tables?

- a. Join with duplicate columns
- b. Cartesian Product
- c. Outer Join
- d. Join on common attributes

Question 35

Not yet answered

Marked out of 1.00

Which index structure provides efficient data retrieval but does not sort the underlying data?

- a. Clustered Index
- b. Unique Index
- c. Hash Index
- d. B-Tree Index

Question 36

Not yet answered

Marked out of 1.00

Which is not a valid ACID property?

- a. Durability
- b. Consistency
- c. Atomicity
- d. Integrity

Question 37

Not yet answered

Marked out of 1.00

Which isolation level guarantees that if a row is read twice in the same transaction, it will not change?

- a. Read Uncommitted
- b. Serializable
- c. Read Committed
- d. Repeatable Read

Question 38

Not yet answered

Marked out of 1.00

Which normal form eliminates transitive dependency?

- a. 1NF
- b. BCNF
- c. 2NF
- d. 3NF

Question 39

Not yet answered

Marked out of 1.00

Which of the following can ensure data integrity in a relational DB?

- a. Foreign Keys
- b. Views
- c. Triggers
- d. Indexes

Question 40

Not yet answered

Marked out of 1.00

Which SQL keyword is used to define a virtual table that simplifies complex joins?

- a. PROCEDURE
- b. TRIGGER
- c. VIEW
- d. INDEX

Question 41

Not yet answered

Marked out of 1.00

HTTP uses which protocol at transport layer?

- a. FTP
- b. TCP
- c. UDP
- d. SMTP

Question 42

Not yet answered

Marked out of 1.00

The IP address 192.168.0.1 belongs to:

- a. Class C
- b. Class A
- c. Class D
- d. Class B

Question 43

Not yet answered

Marked out of 1.00

The port number for DNS is:

- a. 25
- b. 443
- c. 53
- d. 80

Question 44

Not yet answered

Marked out of 1.00

What does TTL in IP packet stand for?

- a. Transfer Type Level
- b. Transport Type Link
- c. Time To Live
- d. Total Time Lag

Question 45

Not yet answered

Marked out of 1.00

What is the maximum size of an IPv4 packet?

- a. 64 KB
- b. 1024 bytes
- c. 65535 bytes
- d. 512 bytes

Question 46

Not yet answered

Marked out of 1.00

What is the purpose of ICMP?

- a. Host resolution
- b. File transfer
- c. Email delivery
- d. Error reporting

Question 47

Not yet answered

Marked out of 1.00

Which address is used in ARP request?

- a. Port number
- b. MAC address
- c. Protocol ID
- d. IP address

Question 48

Not yet answered

Marked out of 1.00

Which layer is responsible for reliable communication?

- a. Network
- b. Transport
- c. Data Link
- d. Application

Question 49

Not yet answered

Marked out of 1.00

Which protocol is used to find MAC address?

- a. ICMP
- b. DNS
- c. IP
- d. ARP

Question 50

Not yet answered

Marked out of 1.00

Which switching technique is used in the Internet?

- a. Circuit Switching
- b. Packet Switching
- c. Line Switching
- d. Message Switching

Question 51

Not yet answered

Marked out of 1.00

A process with higher priority gets CPU before a lower priority process. This is:

- a. Mutual Exclusion
- b. Aging
- c. Starvation
- d. Preemption

Question 52

Not yet answered

Marked out of 1.00

In multithreading, each thread has its own:

- a. File Descriptors
- b. Code Segment
- c. Stack
- d. Data Segment

Question 53

Not yet answered

Marked out of 1.00

In which state is a process waiting for I/O to complete?

- a. Running
- b. Ready
- c. Waiting
- d. Terminated

Question 54

Not yet answered

Marked out of 1.00

Segmentation differs from paging in that:

- a. Segments are variable size
- b. Paging uses logical memory
- c. Segments are fixed size
- d. Paging is slower

Question 55

Not yet answered

Marked out of 1.00

The Banker's Algorithm is used for:

- a. Deadlock avoidance
- b. Context switching
- c. Deadlock detection
- d. Page Replacement

Question 56

Not yet answered

Marked out of 1.00

Thrashing occurs when:

- a. System spends more time swapping
- b. Page fault rate is low
- c. RAM is full
- d. CPU is overloaded

Question 57

Not yet answered

Marked out of 1.00

What is the optimal page replacement algorithm?

- a. LRU
- b. FIFO
- c. Optimal
- d. Clock

Question 58

Not yet answered

Marked out of 1.00

What is the purpose of the exec() system call?

- a. Replace the current process
- b. Terminate process
- c. Suspend a process
- d. Fork a new process

Question 59

Not yet answered

Marked out of 1.00

Which of the following is a non-preemptive scheduling algorithm?

- a. Round Robin
- b. Priority Scheduling
- c. SJF (Preemptive)
- d. FCFS

Question 60

Not yet answered

Marked out of 1.00

Which of the following is not an inter-process communication method?

- a. Semaphores
- b. Signals
- c. Paging
- d. Shared memory