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**Q1. Transmission control protocol is:**

- (a) connection oriented protocol
- (b) uses a three way handshake to establish a connection
- (c) receives data from application as a single stream
- (d) all of the mentioned
- (e) None of the above-mentioned statement correlated with the TCP

**Q2. Department(dept\_id, emp\_id, dept\_name)**

Here the dept\_id, emp\_id and dept\_name are \_\_\_\_\_ and Department is a \_\_\_\_\_

- (a) Relations, Attribute
- (b) Attributes, Relation
- (c) Tuple, Relation
- (d) Tuple, Attributes
- (e) Relations, Cardinality

**Q3. The subset of the super key is a candidate key under what condition?**

- (a) No proper subset is a super key
- (b) All subsets are super keys
- (c) Subset is a super key
- (d) Each subset is a super key
- (e) Both (b) and (c)

**Q4. What is the time complexity to insert a node based on a key in a priority queue?**

- (a)  $O(n \log n)$
- (b)  $O(\log n)$
- (c)  $O(n)$
- (d)  $O(n^2)$
- (e)  $O(n \log n^n)$

**Q5. In cryptography, what is cipher?**

- (a) algorithm for performing encryption and decryption
- (b) encrypted message
- (c) source text
- (d) both (a) and (b)
- (e) none of the mentioned

**Q6. What does error 404 or Not Found error while accessing a URL mean?**

- (a) Requested HTML file is not available
- (b) The server could not find the requested URL
- (c) The path to the interpreter of the script is not valid
- (d) The requested HTML file does not have sufficient permission
- (e) None of the above



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**Q7. Here is an infix expression:  $3 + 13*(60*376-12)$ . The maximum number of symbols that will appear on the stack AT ONE TIME during the conversion of infix to postfix notation of this expression is?**

- (a) 1
- (b) 2
- (c) 3
- (d) 4
- (e) 5

**Q8. Process of removing an element from stack is called \_\_\_\_\_**

- (a) Create
- (b) Eject
- (c) Evaluation
- (d) Discard
- (e) Pop

**Q9. Which one of the following provides the ability to query information from the database and to insert tuples into, delete tuples from, and modify tuples in the database?**

- (a) DML
- (b) DDL
- (c) Query
- (d) Relational Schema
- (e) Attribute

**Q10. Which one of the following is a transport layer protocol?**

- (a) stream control transmission protocol
- (b) internet control message protocol
- (c) neighbor discovery protocol
- (d) dynamic host configuration protocol
- (e) hyper text transfer protocol

**Q11. Which of these queries will display the table given below?**

Name
Anu
Marry
Clair
Rajeev

- (a) Select employee from name
- (b) Select name
- (c) Select name from employee
- (d) Select employee
- (e) Select Anu from Name

**Q12. Multiplexing technique that shifts each signal to a different carrier frequency:**

- (a) FDM
- (b) TDM
- (c) CSMA
- (d) Both a and b
- (e) None of the above

**Q13. A \_\_\_\_\_ is a property of the entire relation, rather than of the individual tuples in which each tuple is unique.**

- (a) Rows
- (b) Key
- (c) Attribute
- (d) Fields
- (e) Table

**Q14. What is the size of MAC Address?**

- (a) 16-bits
- (b) 32-bits
- (c) 48-bits
- (d) 64-bits
- (e) 20-bits

**Q15. The SQL statement `SELECT SUBSTR ('ABCDEFG', -5, 4)` "Substring" FROM DUAL; prints:**

- (a) ABC
- (b) DEFG
- (c) CDEF
- (d) AGEF
- (e) CDEFG

**Q16. What is the Demilitarized Zone?**

- (a) The area between firewall & connection to an external network
- (b) The area between ISP to Military area
- (c) A cluster of idle systems
- (d) A type of Trojan
- (e) It is a malware attack

**Q17. What do you mean by broadcasting in Networking?**

- (a) It means addressing a packet to all machine
- (b) It means addressing a packet to some machine
- (c) It means addressing a packet to a particular machine
- (d) It means addressing a packet to except a particular machine
- (e) It means not addressing any packet





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**Q18. The communication mode that supports two-way traffic but only one direction at a time is:**

- (a) simplex
- (b) duplex
- (c) half duplex
- (d) multiplex
- (e) None of the above

**Q19. Which of the following summation operations is performed on the bits to check an error-detecting code?**

- (a) Codec
- (b) Coder-decoder
- (c) Checksum
- (d) Attenuation
- (e) Multiplexer

**Q20. The attribute AGE is calculated from DATE\_OF\_BIRTH. The attribute AGE is**

- (a) Single valued
- (b) Multi valued
- (c) Composite
- (d) Derived
- (e) All of the above



**Q21. SELECT \_\_\_\_\_**

**FROM instructor**

**WHERE dept name= 'IT';**

**Which of the following should be used to find the mean of the salary?**

- (a) Mean (salary)
- (b) Avg (salary)
- (c) Sum (salary)
- (d) salary
- (e) Count(salary)

**Q22. In the language C, a preprocessor is a program:**

- (a) That processes its input data to produce output that is used as input to another program
- (b) That is nothing but a loader
- (c) That links various source files
- (d) All of the mentioned
- (e) None of the mentioned

**Q23.** The phrase "greater than at least one" is represented in SQL by \_\_\_\_\_

- (a) < all
- (b) < some
- (c) > all
- (d) > some
- (e) > 1

**Q24.** Predict the output of given C Program:

```
#include <stdio.h>
int main()
{ float c = 5.0;
printf ("Temperature in Fahrenheit is %.2f", (9.0/5.0)*c + 32);
return 0;}
```

- (a) Temperature in Fahrenheit is 41.00
- (b) Temperature in Fahrenheit is 37.00
- (c) Temperature in Fahrenheit is 0.00
- (d) No Output
- (e) Compiler Error

**Q25.** An HTTP connection uses port \_\_\_\_\_ whereas HTTPS uses port \_\_\_\_\_ and invokes SSL.

- (a) 40; 80
- (b) 60; 620
- (c) 80; 443
- (d) 620; 80
- (e) 60; 100

**Q26.** Which of the following statements creates a new table emp\_faculty that has the same schema as instructor.

- (a) create table emp\_faculty;
- (b) Create table emp\_faculty like faculty;
- (c) Create Table as emp\_faculty;
- (d) Create table like emp\_faculty;
- (e) CREATE TABLE Emp\_Faculty;

**Q27.** Choose the incorrect statements:

- (a) Shell scripts can accept arguments
- (b) Shell scripts are interpreted
- (c) Shell is a programming language
- (d) Shell scripts are compiled
- (e) A shell script is a computer program designed to be run by the Unix shell

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**Q28. The outcome of Dijkstra's calculation is used to populate the:**

- (a) Topology table
- (b) Routing table
- (c) Neighbour table
- (d) Adjacency table
- (e) Matrix Table

**Q29. Data integrity constraints are used to:**

- (a) Control who is allowed access to the data
- (b) Ensure that duplicate records are not entered into the table
- (c) Improve the quality of data entered for a specific property
- (d) Prevent users from changing the values stored in the table
- (e) Check for authorisation

**Q30. The computation of the shortest path in OSPF is usually done by:**

- (a) Bellman-ford algorithm
- (b) Routing information protocol
- (c) Dijkstra's algorithm
- (d) Distance vector routing
- (e) Routing Information Protocol

**Q31. Identify the function which the following piece of code performs?**

```
public void func (Tree root)
{
    System.out.println(root.data());
    func(root.left());
    func(root.right())
}
```

- (a) Preorder traversal
- (b) Inorder traversal
- (c) Postorder traversal
- (d) Level order traversal
- (e) Outorder traversal

**Q32. The page table contains:**

- (a) base address of each page in physical memory
- (b) page offset
- (c) page size
- (d) page bit
- (e) data of each page

**Q33. TELNET, FTP, SMTP, Protocols fall in the following layer of OSI reference model.**

- (a) Transport Layer
- (b) Internet Layer
- (c) Network Layer
- (d) Application Layer
- (e) Presentation Layer

**Q34. The advantage of dynamic loading is that:**

- (a) A used routine is used multiple times
- (b) An unused routine is never loaded
- (c) CPU utilization increases
- (d) All of the mentioned
- (e) None of the mentioned

**Q35. A memory buffer used to accommodate a speed differential is called \_\_\_\_\_.**

- (a) stack pointer
- (b) cache
- (c) accumulator
- (d) disk buffer
- (e) fragment

**Q36. Which of the following is not a guided transmission line?**

- (a) Twisted Pair
- (b) Coaxial Cable
- (c) Optical Fiber
- (d) Laser Beam
- (e) Both (a) and (b)

**Q37. What is the best-case complexity in building a heap?**

- (a)  $O(n \log n)$
- (b)  $O(n^2)$
- (c)  $O(n \cdot \log n \cdot \log n)$
- (d)  $O(n)$
- (e)  $O(n \cdot m)$

**Q38. The base register is also known as the:**

- (a) basic register
- (b) regular register
- (c) index register
- (d) deallocation register
- (e) memory address register



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**Q39. Suppose a binary tree is constructed with n nodes, such that each node has exactly either zero or two children. The maximum height of the tree will be?**

- (a)  $(n+1)/2$
- (b)  $(n-1)/2$
- (c)  $n/2 - 1$
- (d)  $(n+1)/2 - 1$
- (e) n

**Q40. Which layer is responsible for process to process delivery?**

- (a) network layer
- (b) transport layer
- (c) session layer
- (d) data link layer
- (e) application layer

**Q41. Which of the following are two most important network architecture or reference model?**

- i) Layered reference model
- ii) OSI reference model
- iii) DSL reference model
- iv) TCP/IP reference model

- (a) i and ii
- (b) ii and iii
- (c) iii and iv
- (d) ii and iv
- (e) only iii



**Q42. CREATE TABLE Employee (Emp\_id NUMERIC NOT NULL, Name VARCHAR (20), dept\_name VARCHAR(20), Salary NUMERIC UNIQUE (Emp\_id,Name));**

INSERT INTO Employee VALUES (1002, Ross, CSE, 10000)

INSERT INTO Employee VALUES (1006, Ted, Finance, );

INSERT INTO Employee VALUES (1002, Rita, Sales, 20000);

Consider the given SQL statements in the description. What will be the result of the query?

- (a) All statements executed
- (b) Error in create statement
- (c) Error in insert into Employee values (1006, Ted, Finance, );
- (d) Error in insert into Employee values (1008, Ross, Sales,20000);
- (e) Error in Create Table;

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**Q43. A variable X is called pointer if:**

- (a) X contains the address of an element in data
- (b) X points to the address of first element in data
- (c) X can store only memory addresses
- (d) X contain the data and the address of data
- (e) X cannot store a value more than 1 bit.

**Q44. Which among the following operation cannot be performed on a queue?**

- (a) Traversal
- (b) Insertion
- (c) Deletion
- (d) Retrieval
- (e) All of the above operations are performed on a queue

**Q45. Which of the following is used to get back all the transactions back after rollback?**

- (a) Commit
- (b) Rollback
- (c) Flashback
- (d) Redo
- (e) Save

**Q46. Which among the following is an example of a network database?**

- (a) Unify
- (b) Ingress
- (c) IDMS
- (d) MySQL
- (e) Both (a) and (b)

**Q47. Which of the following is IaaS service provider?**

- (a) EC2
- (b) EC1
- (c) EC10
- (d) Hybrid
- (e) Both (a) and (b)

**Q48. Which statement is true regarding synonyms?**

- (a) Synonyms can be created for tables but not views
- (b) Synonyms are used to reference only those tables that are owned by another user
- (c) A public synonym and a private synonym can exist with the same name for the same table
- (d) The DROP SYNONYM statement removes the synonym, and the status of the table on which the synonym has been created becomes invalid
- (e) All of the given statements are true

**Q49. A binary search tree whose left subtree and right subtree in differ in height by at most 1 unit is called \_\_\_\_\_.**

- (a) Lemma Tree
- (b) Redblack Tree
- (c) AVL Tree
- (d) Both (a) and (c)
- (e) None of the above

**Q50. What does Rollback do after commit?**

- (a) Undo the transactions before commit
- (b) Clears all transactions
- (c) Redo the transactions before commit
- (d) No action
- (e) Redo (one) previous transaction

**Q51. Which of them take care of email at client side?**

- (a) POP
- (b) MAP
- (c) IMAP
- (d) Both (a) and (c)
- (e) None of the mentioned

**Q52. RAD Software process model stands for:**

- (a) Rapid Application Development.
- (b) Relative Application Development.
- (c) Rapid Application Design.
- (d) Recent Application Development.
- (e) None of these

**Q53. A variable that hold the address of another object is called a\_\_\_\_\_.**

- (a) Integer
- (b) Pointer
- (c) Constant
- (d) Memory Variable
- (e) None of these

**Q54. The length of the one-byte instruction is\_\_\_\_\_.**

- (a) 2 bytes
- (b) 1 byte
- (c) 3 bytes
- (d) 4 bytes
- (e) None of these



**Q55. Which of the following ensures that only authorized users can use or apply specific software application?**

- (a) Service level agreement
- (b) Access log
- (c) Dongle
- (d) Private Key
- (e) None of these

**Q56. To promote encapsulation, Java provides which type of access modifier?**

- (a) Public
- (b) Private
- (c) Protected
- (d) All of the above
- (e) None of the above

**Q57. A distributed network configuration in which all data information pass through a central computer is\_\_\_\_\_.**

- (a) Bus Network
- (b) Ring Network
- (c) Star Network
- (d) Font to Point Network
- (e) None of the above

**Q58. Flexcube, core banking solution software developed by which company?**

- (a) TCS
- (b) Infosys
- (c) IBM
- (d) Oracle
- (e) None of these

**Q59. Which of these coding types is used for data type characters in Java?**

- (a) ASCII
- (b) ISO-LATIN-1
- (c) UNICODE
- (d) Both (a) and (c)
- (e) None of these

**Q60. What is the complexity of Merge Sort?**

- (a)  $O(1)$
- (b)  $O(n^2)$
- (c)  $O(\log n)$
- (d)  $O(n \log n)$
- (e) None of these



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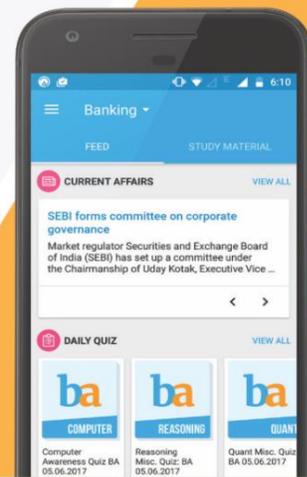
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