

PREVIEW QUESTION BANK(Single)

Module Name : NCET Language: ENGLISH
 Section Name : 308-Computer Science
 Exam Date : 29-Apr-2025 Batch : 15:00-18:00

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Ne M
Section : 308-Computer Science				
Topic : Topic 88				
Q.Type : Objective Question				
1	6117	*This is mandatory question. In MYSQL database, if a table A has degree 10 and cardinality 15, and another table, B has degree 10 and cardinality 15, what will be the degree and cardinality of the Cartesian product of A and B ? (1) 100, 30 respectively (2) 20, 30 respectively (3) 100, 225 respectively (4) 20, 225 respectively (A) 1 (B) 2 (C) 3 (D) 4	4.0	
Q.Type : Objective Question				
2	6118	*This is mandatory question. Data stored by DBMS in a database catalog is called ? (1) Data constraint (2) Data Schema (3) Meta Data (4) Database Instance (A) 1 (B) 2 (C) 3 (D) 4	4.0	
Q.Type : Objective Question				
3	6119	*This is mandatory question.	4.0	

Given an Employee Table :

Ecode	Ename	Salary	Job	City
E1	SHIVAM	45000	MANAGER	DELHI
E2	VIKAS	50000	EXECUTIVE	KANPUR
E3	SAKET	60000	SR MANAGER	BENGALURU
E4	RAJAT	47000	MANAGER	DELHI
E5	SHAMBHU	47000	SR MANAGER	CHENNAI

What is the output of the following SQL Query :

SELECT COUNT(DISTINCT Job) FROM Employee;

- (1) 2
- (2) 4
- (3) 1
- (4) 3

- (A) 1
- (B) 2
- (C) 3
- (D) 4

Q.Type : Objective Question

4 6120

***This is mandatory question.**

4.0

Alter, update and Delete are :

- (1) DML, DDL and DDL respectively
- (2) All are DDL
- (3) DDL, DML, and DML respectively
- (4) All are DML

- (A) 1
- (B) 2
- (C) 3
- (D) 4

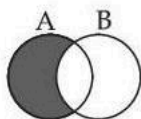
Q.Type : Objective Question

5 6121

***This is mandatory question.**

4.0

Which of the following options correctly represents the shaded part of the given Venn Diagram.



- (1) $A \cup B$
- (2) $A \cap B$
- (3) $A - B$
- (4) $A \times B$

- (A) 1

		(B) 2 (C) 3 (D) 4	
Q.Type : Objective Question			
6	6122	*This is mandatory question. Which of the following device acts as interface between computer and Network ? (1) Ethernet card (2) RAM (3) GRAPHICS CARD (4) SMPS (A) 1 (B) 2 (C) 3 (D) 4	4.0
Q.Type : Objective Question			
7	6123	*This is mandatory question. Which of the following waves are used in communication between remote control and TV ? (1) Radiowaves (2) Microwaves (3) Infrared waves (4) X rays (A) 1 (B) 2 (C) 3 (D) 4	4.0
Q.Type : Objective Question			
8	6124	*This is mandatory question. Consider the task of displaying data on the basis of primary key from a table. The database is also to be created. Identify the order in which given statements are executed. (A) selecting a database (B) creating a database (C) display the content on the basis of primary key (D) creating a table (E) identify the PRIMARY KEY Choose the correct answer from the options given below : (1) (B), (D), (A), (E), (C) (2) (A), (B), (D), (C), (E) (3) (B), (D), (A), (C), (E) (4) (B), (A), (D), (E), (C) (A) 1	4.0

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

9	6125	*This is mandatory question. Which of the following can be used in Guided media transmission ? (A) UNSHIELDED TWISTED PAIR CABLE (B) OPTICAL FIBER (C) RADIO WAVES (D) COAXIAL CABLE (E) INFRARED WAVES Choose the correct answer from the options given below : (1) (A), (C), (D) Only (2) (A), (B), (D) Only (3) (A), (C), (E) Only (4) (B), (D), (E) Only (A) 1 (B) 2 (C) 3 (D) 4	4.0
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Q.Type : Objective Question

10	6126	*This is mandatory question. Match List - I with List - II. <table><tr><th>List - I</th><th>List - II</th></tr><tr><td>(A) FOREIGN KEY</td><td>(I) remaining attributes other than Primary Key in Candidate Keys</td></tr><tr><td>(B) PRIMARY KEY</td><td>(II) combination of attributes taken together as Primary Key</td></tr><tr><td>(C) ALTERNATE KEY</td><td>(III) represents the relationship between two relations</td></tr><tr><td>(D) COMPOSITE PRIMARY KEY</td><td>(IV) represents the tuples in a relation which can be uniquely identified</td></tr></table> Choose the correct answer from the options given below : (1) (A)-(III), (B)-(I), (C)-(IV), (D)-(II) (2) (A)-(IV), (B)-(I), (C)-(III), (D)-(II) (3) (A)-(III), (B)-(IV), (C)-(I), (D)-(II) (4) (A)-(IV), (B)-(II), (C)-(I), (D)-(III) (A) 1 (B) 2 (C) 3 (D) 4	List - I	List - II	(A) FOREIGN KEY	(I) remaining attributes other than Primary Key in Candidate Keys	(B) PRIMARY KEY	(II) combination of attributes taken together as Primary Key	(C) ALTERNATE KEY	(III) represents the relationship between two relations	(D) COMPOSITE PRIMARY KEY	(IV) represents the tuples in a relation which can be uniquely identified	4.0
List - I	List - II												
(A) FOREIGN KEY	(I) remaining attributes other than Primary Key in Candidate Keys												
(B) PRIMARY KEY	(II) combination of attributes taken together as Primary Key												
(C) ALTERNATE KEY	(III) represents the relationship between two relations												
(D) COMPOSITE PRIMARY KEY	(IV) represents the tuples in a relation which can be uniquely identified												

Topic : Topic 89

Q.Type : Objective Question

11	6127	Which device works as a network filter based on predefined security rules ? (1) FIREWALL (2) REPEATER (3) SWITCH (4) COOKIES (A) 1 (B) 2 (C) 3 (D) 4	4.0
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Q.Type : Objective Question

12	6128	_____ are used by the websites to store browsing information of the user. (1) SERVER (2) COOKIES (3) FTP (4) HARD DISK (A) 1 (B) 2 (C) 3 (D) 4	4.0
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Q.Type : Objective Question

13	6129	The difference between the maximum and minimum frequency contained in the composite signals is called _____. (1) length (2) amplitude (3) wave (4) bandwidth (A) 1 (B) 2 (C) 3 (D) 4	4.0
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Q.Type : Objective Question

14	6130	In mobile communication, VoLTE stands for ? (1) Voice over Long Term Evaluation (2) Voice over Long Term Evolution (3) Voice on Long Term Evolution (4) Voice on Long Term Evaluation	4.0
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		(A) 1	
		(B) 2	
		(C) 3	
		(D) 4	

Q.Type : Objective Question

15	6131	7 Mbps is equal to how many Bits per second ? (1) 7×2^{10} bps (2) 14×2^{19} bps (3) 7×2^9 bps (4) 14×2^{20} bps (A) 1 (B) 2 (C) 3 (D) 4	4.0
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Q.Type : Objective Question

16	6132	Shivam wants to upload a document at the rate of 15 pages per second, where each page contains 200 characters and each characters is of 8 bits. What will be the data rate of the channel in bps ? (1) 1600 bps (2) 2000 bps (3) 2400 bps (4) 3200 bps (A) 1 (B) 2 (C) 3 (D) 4	4.0
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Q.Type : Objective Question

17	6133	In old age home, the minimum age of a person is 64 years and maximum age of a person is 98 years. What is the range of the data ? (1) 81 (2) 34 (3) 98 (4) 64 (A) 1 (B) 2 (C) 3	4.0
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(D) 4

Q.Type : Objective Question

18 6134

4.0

If a Channel contained minimum frequency of 840 Hz and maximum frequency of 2 KHz. What is Bandwidth of the channel ?

- (1) 1.26 KHz
- (2) 1.16 KHz
- (3) 1.22 KHz
- (4) 1.34 KHz

- (A) 1
- (B) 2
- (C) 3
- (D) 4

Q.Type : Objective Question

19 6135

4.0

Which device is required to regenerate the signals over the cable ?

- (1) Repeater
- (2) Regenerator
- (3) MODEM
- (4) Network Interface Card

- (A) 1
- (B) 2
- (C) 3
- (D) 4

Q.Type : Objective Question

20 6136

4.0

Consider the database table given below :
product

PCode	PName	UPrice	Rating
P01	Shampoo	120	6
P02	Toothpaste	54	8
P03	Soap	25	7
P04	Toothpaste	65	4
P05	Soap	38	5
P06	Shampoo	245	6

What should be the command to delete the items with rating less than 4 ?

- (1) Delete from product where Rating<4;
- (2) Alter table product drop rating where Rating<4;
- (3) Drop from table product where Rating<4;
- (4) Update table product delete rating where Rating<4;

- (A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

21 6137

4.0

Consider The two tables "A" and "B" given below :

Table: A

SNo	Name	Class
1	Suman	7
2	Reeta	8
3	Sarita	8
4	Komal	9
5	Shashank	8

Table: B

SNo	Name	Class
2	Reeta	8
4	Komal	9
3	Sarita	8
4	Sanjay	7

Which is the correct operation to display following output :

Sno	Name	Class
2	Reeta	8
3	Sarita	8
4	Komal	9

(1) $A - B$

(2) $A \cup B$

(3) $A \cap B$

(4) $A \times B$

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

22 6138

4.0

The performance of an algorithm is measured by its :

(1) Time complexity

(2) Instructions quality

(3) Programming language

(4) Problem scope

		(A) 1 (B) 2 (C) 3 (D) 4	
Q.Type : Objective Question			
23	6139	Consider the list of 6 elements : $L1 = [7, 6, 13, 1, -5, 3]$. The data is to be arranged in increasing order. Choose the correct option after three complete passes of Insertion Sort. (1) 1, 7, 6, 13, -5, 3 (2) -5, 1, 6, 7, 13, 3 (3) 1, 6, 7, 13, -5, 3 (4) 6, 7, 13, 1, -5, 3 (A) 1 (B) 2 (C) 3 (D) 4	4.0
Q.Type : Objective Question			
24	6140	Arrange the following Exception handling steps in order of their execution. (A) Catching an Exception (B) Exception is raised (C) An error encountered in a method and an exception object is created (D) Program terminates (E) Runtime system searched for exception handler in the current method Choose the correct answer from the options given below : (1) (E), (B), (C), (A), (D) (2) (B), (C), (E), (A), (D) (3) (C), (B), (A), (E), (D) (4) (C), (B), (E), (A), (D) (A) 1 (B) 2 (C) 3 (D) 4	4.0
Q.Type : Objective Question			
25	6141		4.0

		Consider the following statements : (A) Bubble sort algorithm works by repeatedly swapping the adjacent elements in case they are unordered, in $(n - 1)$ passes. (B) In selection sort the smallest element is selected from the unsorted array and swapped with the leftmost element. The process continues for the next element in the unsorted array till the list is sorted. (C) Process of finding an element from a list is called sorting. (D) Insertion sort places the element of a list at suitable place like placing cards at its right place. (E) Time complexity of an algorithm is always independent of the size of input provided. Choose the correct statements from the options given below : (1) (A), (D), (E) Only (2) (B), (A), (D) Only (3) (C), (D), (E) Only (4) (B), (C), (D) Only (A) 1 (B) 2 (C) 3 (D) 4	
Q.Type : Objective Question			
26	6142	Consider the following statements : (A) Inserting an Element in a Queue is called Dequeue. (B) Deleting an element from Stack is called POP. (C) Queue is container of objects that are inserted and deleted according to FIFO principle. (D) STACK is container of objects that are inserted and deleted according to FIFO principle. (E) Inserting an element into Stack is called PUSH Choose the correct statements from the options given below : (1) (A), (D), (E) Only (2) (B), (A), (D) Only (3) (C), (D), (E) Only (4) (B), (C), (E) Only (A) 1 (B) 2 (C) 3 (D) 4	4.0
Q.Type : Objective Question			
27	6143		4.0

Match List - I with List - II.

List - I

- (A) ImportError
- (B) OverflowError
- (C) NameError

List - II

- (I) raised when a local or global variable name is not defined
- (II) raised when the requested module definition is not found
- (III) raised when an operator is supplied with a value of incorrect data type
- (IV) raised when the result of a calculation exceeds the maximum limit for numeric data type.

Choose the **correct** answer from the options given below :

- (1) (A)-(IV), (B)-(II), (C)-(I), (D)-(III)
- (2) (A)-(I), (B)-(IV), (C)-(II), (D)-(III)
- (3) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)
- (4) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

28 6144

4.0

Match List - I with List - II.

List - I

- (A) DESCRIBE TABLE
- (B) DISTINCT
- (C) AS
- (D) In

List - II

- (I) compare a value with a set of values and returns true if the value belongs to the set.
- (II) rename any column while displaying the output.
- (III) view the structure of an already created table.
- (IV) return the records without repetition.

Choose the **correct** answer from the options given below :

- (1) (A)-(IV), (B)-(II), (C)-(I), (D)-(III)
- (2) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
- (3) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)
- (4) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)

(A) 1

(B) 2

(C) 3

(D) 4