

PREVIEW QUESTION BANK(Single)

Module Name : NCET Language: ENGLISH
 Section Name : 1308-Informatics Practices
 Exam Date : 29-Apr-2025 Batch : 15:00-18:00

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Ne M
Section : 1308-Informatics Practices				
Topic : Topic 90				
Q.Type : Objective Question				
1	6145	*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	6146	*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	6147	*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 6148

***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

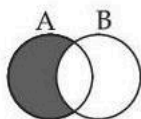
Q.Type : Objective Question

5 6149

***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	6150	*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	6151	*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	6152	*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	6153	*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

6154

***This is mandatory question.**

Match List - I with List - II.

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

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

4.0

Topic : Topic 91

Q.Type : Objective Question

11	6155	What will be the output of the following code ? <pre>import pandas as pd series1=pd.Series([15, 24, 25,27]) print(series1)</pre> (1) 1 15 2 24 3 25 4 27 (2) 0 15 1 24 2 25 3 27 (3) 15 24 25 27 (4) 15, 24, 25, 27 (A) 1 (B) 2 (C) 3 (D) 4	4.0
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Q.Type : Objective Question

12	6156	What will function head(n) return in Pandas ? (1) fetches first “n” elements from a Pandas Object (2) fetches last “n” elements from a Pandas Object (3) inserts first “n” elements in a Pandas Object (4) inserts last “n” elements in a Pandas Object (A) 1 (B) 2 (C) 3 (D) 4	4.0
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Q.Type : Objective Question

13	6157		4.0
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Assume a dataframe df that contains data about marks of students.

	Name	Eco	Maths
S1	Arnab	18	57
S2	Kashish	24	47
S3	Divyam	57	38
S4	Shobhit	47	48
S5	Ravi T	49	42

Assume df is the object of pandas dataframe then What will the output of the following code :
df.shape

- (1) (5, 3)
- (2) (5, 4)
- (3) (3, 5)
- (4) (4, 5)

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

14 6158

Given the following code for pandas series having city name along with their temperature.
import pandas as pd

```
my_ser=pd.Series({"Kanpur":40,"Lucknow":45,"Delhi":44})
```

Which of the following option is correct to print the city along with temperature, having temperature greater than 40.

- (1) print([my_ser>40])
- (2) print(my_ser[>40])
- (3) print(my_ser)>40
- (4) print(my_ser[my_ser>40])

(A) 1

(B) 2

(C) 3

(D) 4

4.0

Q.Type : Objective Question

15 6159

What will be the correct Syntax to assign a label "Number" to y-axis of a plot ?
(consider 'import matplotlib.pyplot as plt')

- (1) plt.ylabel("Number")
- (2) plt.label("Number")
- (3) plt.yaxis("Number")
- (4) plt.axis("Number")

(A) 1

4.0

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

16 6160

4.0

Match List - I with List - II.

List - I

List - II

- | | |
|--------------------|---|
| (A) Series.index | (I) returns True if there are any NaN |
| (B) Series.size | (II) return True if series object is empty |
| (C) Series.hasnans | (III) returns number of elements in the series object |
| (D) Series.empty | (IV) returns index of the series |

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)-(IV), (B)-(III), (C)-(I), (D)-(II)

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

17 6161

4.0

Suppose a student Amit, used an image in his project which the owner of the image has not permitted, even though Amit has mentioned the reference, this type of violation is known as :

- (1) Plagiarism
- (2) Copyright infringement
- (3) Trademark infringement
- (4) Cyberbullying

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

18 6162

4.0

By default, DataFrame.quantile() method, displays _____.

- (1) First quartile of all numeric values
- (2) Second quartile of all numeric values
- (3) Third quartile of all numeric values
- (4) First quartile of all numeric values

(A) 1

		(B) 2	
		(C) 3	
		(D) 4	

Q.Type : Objective Question

19	6163	Symbol that represents a data value in a line chart or scatter plot is known as _____. (1) Labels (2) Marker (3) Legend (4) Ticks (A) 1 (B) 2 (C) 3 (D) 4	4.0
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Q.Type : Objective Question

20	6164	A network device that can receive the data, analyse it and transmit it to other networks is called ? (1) Switch (2) Hub (3) Ethernet Card (4) Router (A) 1 (B) 2 (C) 3 (D) 4	4.0
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Q.Type : Objective Question

21	6165	The number of connections in a mesh network is represented by : (1) $N*(N-1)/2$ (2) $N*(N+1)/2$ (3) N^2 (4) $N*(N-1)$ (A) 1 (B) 2 (C) 3 (D) 4	4.0
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Q.Type : Objective Question

22	6166		4.0
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Which chemical is found in resistor that leads to kidney and liver damage ?

- (1) Lead
- (2) Phosphorus
- (3) Beryllium
- (4) Cadmium

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

23 6167

4.0

Consider the table 'Sales' given below :

InvoiceNo	CustID	CarID	PaymentMode
I001	C001	Ca001	Cash
I002	C002	Ca001	Cheque
I003	C001	Ca002	Card
I004	C003	Ca001	Card
I005	C001	Ca003	Cash
I006	C002	Ca003	Cheque

What is the SQL Command to display the number of cars purchased by each customer ?

- (1) SELECT CustID, COUNT(*) FROM Sales GROUP BY CustID
- (2) SELECT CarID, COUNT(*) FROM Sales GROUP BY CustID
- (3) SELECT CustID, COUNT(*) FROM Sales GROUP BY CarID
- (4) SELECT CarID, COUNT(*) FROM Sales GROUP BY CarID

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

24 6168

4.0

Suppose we are trying to save a DataFrame 'Df' to a csv file and we do not want column names to be saved along, which of the following syntax is appropriate for it ?

- (1) Df.to_csv('path',sep=',',header=True, index=False)
- (2) Df.to_csv('path',sep=',',header=False, index=True)
- (3) Df.to_csv('path',sep=',',Column=False, index=False)
- (4) Df.to_csv('path',sep=',',Column=True, index=False)

(A) 1

(B) 2

(C) 3

		(D) 4	
Q.Type : Objective Question			
25	6169	What is the sequence of working of a dynamic web page. (A) HTTP Request (B) HTTP Response (C) Calls an application program for each Request (D) The program executes and produces HTML output Choose the correct answer from the options given below : (1) (A), (B), (C), (D) (2) (A), (B), (D), (C) (3) (A), (C), (B), (D) (4) (A), (C), (D), (B) (A) 1 (B) 2 (C) 3 (D) 4	4.0
Q.Type : Objective Question			
26	6170	To find total number of null values corresponding to each attribute in a dataframe (df) which of the following syntax are appropriate : (A) df.isna().sum() (B) df.isnull().sum() (C) df.notnull() (D) df.isany().sum() Choose the correct answer from the options given below : (1) (A) and (B) Only (2) (A), (B) and (C) Only (3) (A) Only (4) (B) and (D) Only (A) 1 (B) 2 (C) 3 (D) 4	4.0
Q.Type : Objective Question			
27	6171		4.0

With reference to Net Etiquettes which are the etiquettes covered under 'Being Ethical'

- (A) No copyright violation
- (B) Respect Privacy
- (C) Share the Expertise
- (D) Avoid Cyber-Bullying

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

- (1) (A), (B) and (C) Only
- (2) (A) and (C) Only
- (3) (A) and (D) Only
- (4) (B) and (D) Only

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

28 6172

Match List - I with List - II.

List - I

- (A) Web Server
- (B) DNS
- (C) Plug-ins
- (D) Cookie

List - II

- (I) is used to map the name to the IP address of web server.
- (II) Tools that help to extend the functionality of browser.
- (III) String of information transferred by website to the browser.
- (IV) is used to store and deliver the contents of website to client.

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

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

(A) 1

(B) 2

(C) 3

(D) 4

4.0