

PREVIEW QUESTION BANK(Single)

Module Name : NCET Language: ENGLISH
 Section Name : 1308-Informatics Practices
 Exam Date : 29-Apr-2025 Batch : 09:00-12:00

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Ne M																																													
Section : 1308-Informatics Practices																																																	
Topic : Topic 90																																																	
Q.Type : Objective Question																																																	
1	4145	*This is mandatory question. Which of these is not an example of scaler function? 1. UCASE() 2. NOW() 3. MOD() 4. COUNT() (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00																																													
Q.Type : Objective Question																																																	
2	4146	*This is mandatory question. Consider the database table given below: <table border="1"> <thead> <tr> <th colspan="5">TEACHER</th></tr> <tr> <th>NAME</th><th>DESIGNATION</th><th>SUBJECT</th><th>DATE_OF JOINING</th><th>CLASSES TAKEN</th></tr> </thead> <tbody> <tr> <td>AABHA</td><td>P.G.T</td><td>CHEMISTRY</td><td>12-01-2000</td><td>9-12</td></tr> <tr> <td>SEEMA</td><td>P.G.T</td><td>MATHEMATICS</td><td>13-02-2005</td><td>9-12</td></tr> <tr> <td>SEEMA</td><td>P.G.T</td><td>CHEMISTRY</td><td>12-07-2015</td><td>11-12</td></tr> <tr> <td>ANSHU</td><td>P.R.T</td><td>COMPUTER SCIENCE</td><td>22-05-2004</td><td>1-5</td></tr> <tr> <td>DISHA</td><td>T.G.T</td><td>COMPUTER SCIENCE</td><td>10-04-2022</td><td>6-10</td></tr> <tr> <td>FREYA</td><td>P.R.T</td><td>SOCIAL SCIENCE</td><td>01-05-2000</td><td>1-3</td></tr> <tr> <td>ANSHU</td><td>P.G.T</td><td>COMPUTER SCIENCE</td><td>28-05-2001</td><td>11-12</td></tr> </tbody> </table> Which of the given fields can be taken as the composite primary key? 1. NAME,DESIGNATION 2. NAME,SUBJECT 3. NAME,SUBJECT,DESIGNATION 4. DESIGNATION,SUBJECT (A) 1 (B) 2 (C) 3 (D) 4	TEACHER					NAME	DESIGNATION	SUBJECT	DATE_OF JOINING	CLASSES TAKEN	AABHA	P.G.T	CHEMISTRY	12-01-2000	9-12	SEEMA	P.G.T	MATHEMATICS	13-02-2005	9-12	SEEMA	P.G.T	CHEMISTRY	12-07-2015	11-12	ANSHU	P.R.T	COMPUTER SCIENCE	22-05-2004	1-5	DISHA	T.G.T	COMPUTER SCIENCE	10-04-2022	6-10	FREYA	P.R.T	SOCIAL SCIENCE	01-05-2000	1-3	ANSHU	P.G.T	COMPUTER SCIENCE	28-05-2001	11-12	4.0	1.00
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Q.Type : Objective Question																																																	

3	4147	*This is mandatory question. Consider the database table STUDENT given below: <table border="1"> <thead> <tr> <th colspan="5">STUDENT</th> </tr> <tr> <th>NAME</th><th>CLASS</th><th>ADMISSION_DATE</th><th>ADMISSION_NO</th><th>DATE_OF_BIRTH</th></tr> </thead> <tbody> <tr> <td>ABHAY</td><td>X</td><td>23-04-2015</td><td>6123</td><td>12-01-2005</td></tr> <tr> <td>SURESH</td><td>XI</td><td>01-04-2016</td><td>6124</td><td>01-07-2004</td></tr> <tr> <td>SEEMA</td><td>X</td><td>13-04-2015</td><td>6125</td><td>11-04-2005</td></tr> <tr> <td>ANSHU</td><td>XII</td><td>14-04-2017</td><td>6126</td><td>14-01-2003</td></tr> <tr> <td>DISHA</td><td>XII</td><td>03-04-2019</td><td>6122</td><td>14-06-2003</td></tr> <tr> <td>FREYA</td><td>XI</td><td>02-04-2016</td><td>6127</td><td>12-01-2004</td></tr> </tbody> </table> If the following changes are made to the table: - The field DATE_OF_BIRTH is dropped from the table - A new record (ANSHU,XI,18-04-2015,6128) is added to the table What will be effect on the degree and cardinality of the table? - Degree will remain the same and cardinality will increase by 1 - Degree will decrease by 1 and cardinality will remain the same. - Degree will decrease by 1 and cardinality will increase by 1 - Degree will increase by 1 and cardinality will decrease by 1 (A) 1 (B) 2 (C) 3 (D) 4	STUDENT					NAME	CLASS	ADMISSION_DATE	ADMISSION_NO	DATE_OF_BIRTH	ABHAY	X	23-04-2015	6123	12-01-2005	SURESH	XI	01-04-2016	6124	01-07-2004	SEEMA	X	13-04-2015	6125	11-04-2005	ANSHU	XII	14-04-2017	6126	14-01-2003	DISHA	XII	03-04-2019	6122	14-06-2003	FREYA	XI	02-04-2016	6127	12-01-2004	4.0	1.00
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Q.Type : Objective Question

4	4148	*This is mandatory question. Consider the database table given below: <table border="1"> <thead> <tr> <th colspan="5">FURNITURE</th> </tr> <tr> <th>ITEM</th><th>MATERIAL</th><th>DATE_OF_PURCHASE</th><th>QTY</th><th>PRICE</th></tr> </thead> <tbody> <tr> <td>TABLE</td><td>WOOD</td><td>23-04-2024</td><td>10</td><td>5000</td></tr> <tr> <td>BED</td><td>WOOD</td><td>01-04-2023</td><td>5</td><td>15000</td></tr> <tr> <td>CHAIRS</td><td>WOOD</td><td>13-04-2023</td><td>30</td><td>2000</td></tr> <tr> <td>CHAIRS</td><td>IRON</td><td>15-04-2024</td><td>30</td><td>2500</td></tr> <tr> <td>SOFA</td><td>WOOD</td><td>14-04-2023</td><td>10</td><td>10000</td></tr> <tr> <td>ALMIRAH</td><td>WOOD</td><td>03-04-2023</td><td>20</td><td>4000</td></tr> <tr> <td>ALMIRAH</td><td>IRON</td><td>08-04-2024</td><td>20</td><td>6000</td></tr> </tbody> </table> If a primary key ITEM_ID (int) is required to be added to the above table then which of the following command will be used? - ALTER TABLE FURNITURE ADD (ITEM_ID INT PRIMARY KEY); - ALTER TABLE FURNITURE INSERT (ITEM_ID INT PRIMARY KEY); - ALTER TABLE FURNITURE ADD PRIMARY KEY (ITEM_ID INT); - ALTER TABLE FURNITURE INSERT PRIMARY KEY (ITEM_ID INT); (A) 1 (B) 2 (C) 3	FURNITURE					ITEM	MATERIAL	DATE_OF_PURCHASE	QTY	PRICE	TABLE	WOOD	23-04-2024	10	5000	BED	WOOD	01-04-2023	5	15000	CHAIRS	WOOD	13-04-2023	30	2000	CHAIRS	IRON	15-04-2024	30	2500	SOFA	WOOD	14-04-2023	10	10000	ALMIRAH	WOOD	03-04-2023	20	4000	ALMIRAH	IRON	08-04-2024	20	6000	4.0	1.00
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ALMIRAH	IRON	08-04-2024	20	6000																																													

		(D) 4		
Q.Type : Objective Question				
5	4149	*This is mandatory question. Which of the following is not a valid SQL data type? 1. float 2. numeric 3. character 4. decimal (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
6	4150	*This is mandatory question. Which of the following is an SQL statement to extract data from a table? 1. open 2. get 3. extract 4. select (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
7	4151	*This is mandatory question.	4.0	1.00

Consider the database tables given below:

FURNITURE					
ITEM_ID	ITEM	VENDOR_ID	DATE_OF_PURCHASE	QTY	PRICE
I01	TABLE	V1	23-04-2024	10	5000
I02	BED	V2	01-04-2023	5	15000
I03	CHAIRS	V2	13-04-2023	30	2000
I05	SOFA	V3	14-04-2023	10	10000
I06	ALMIRAH	V4	03-04-2023	20	4000

VENDOR		
VENDOR_ID	VENDOR_NAME	LOCATION
V1	Sharma Suppliers	Delhi
V2	APJ Suppliers	Chennai
V3	Shyam Sunder's	Delhi
V4	Radhe Furniture Supplies	Mumbai

What will be the degree and cardinality of the output generated by the given command?
 SELECT * FROM FURNITURE NATURAL JOIN VENDOR;

1. DEGREE=9, CARDINALITY=9
2. DEGREE=8, CARDINALITY=5
3. DEGREE=9, CARDINALITY=5
4. DEGREE=8, CARDINALITY=8

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

8	4152	*This is mandatory question. Arrange the following types of computer networks in ascending order based on geographical area covered: A. Local Area Network (LAN) B. Personal Area Network (PAN) C. Metropolitan Area Network (MAN) D. Wide Area Network (WAN) Choose the correct answer from the options given below: 1. A, B, C, D 2. B, A, C, D 3. A, B, D, C 4. D, C, A, B (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
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Q.Type : Objective Question

9	4153	*This is mandatory question.	4.0	1.00
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Which of these are DML commands?

- A. INSERT
- B. DROP
- C. CREATE
- D. UPDATE
- E. DELETE

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

- 1. A and C Only
- 2. A and D Only
- 3. A, C and E Only
- 4. A, D and E Only

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

10 4154

***This is mandatory question.**

Match the **LIST-I** with **LIST-II**

LIST-I		LIST-II	
A.	Router	I.	Serves as the entry and exit point of a network
B.	Repeater	II.	Packages the data into packets.
C.	Hub	III.	Sends out the data arriving on any of the lines on all the other lines.
D.	Gateway	IV.	Regenerates and puts back the weakened signal appearing on the cable

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

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

(A) 1

(B) 2

(C) 3

(D) 4

Topic : Topic 91

Q.Type : Objective Question

11 4155

An SQL clause which can be used only with the group by clause:

- 1. Order By
- 2. Check
- 3. Distinct
- 4. Having

(A) 1

		(B) 2		
		(C) 3		
		(D) 4		
Q.Type : Objective Question				
12	4156	Which SQL keyword is used to sort the result set? 1. order 2. order by 3. sort by 4. sort (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
13	4157	Given the statements written in Python shell: <pre>>>>import numpy as np >>>import pandas as pd >>>series = pd.Series(np.arange(10,14,1)) >>>series[1 : 3]=50 >>>series</pre> Select the correct output. 1. <pre>0 10 1 50 2 50 3 50 4 14 dtype: int32</pre> 2. <pre>0 10 1 50 2 50 3 13 dtype: int32</pre> 3. <pre>1 50 2 50 3 50 4 13 5 14 dtype: int32</pre> 4. <pre>1 50 2 50 3 12 4 13 5 14 dtype: int32</pre>	4.0	1.00

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

Q.Type : Objective Question

14	4158	What is the output of the following python code: <pre>seriesodd = pd.Series([1,3,5,7,9], index = [1,3,5,7,9]) seriesprime = pd.Series([2,3,5,7,11], index = [2,3,5,7,11]) print(seriesodd.add(seriesprime, fill_value=1))</pre> 1. 1 NaN 2 NaN 3 6.0 5 10.0 7 14.0 9 NaN 11 NaN dtype:float64 2. 1 1.0 2 2.0 3 6.0 5 10.0 7 14.0 9 9.0 11 11.0 dtype:float64 3. 1 0.0 2 0.0 3 6.0 5 10.0 7 14.0 9 0.0 11 0.0 dtype:float64 4. 1 2.0 2 3.0 3 6.0 5 10.0 7 14.0 9 10.0 11 12.0 dtype:float64 (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
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Q.Type : Objective Question

15	4159		4.0	1.00
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Choose the correct output for the given statements:

```
>>>import pandas as pd
>>>marks= {'Name':['Aman','Priya','Raman'], 'Maths':[22,21,14], 'Science':[21,20,19],
'S.St':[18,17,15], 'Hindi':[20,22,24], 'Eng':[21,24,23] }
>>>df=pd.DataFrame(marks)
>>>print(df.max() )
```

1. Name Raman
 Maths 22
 Science 21
 S.St 18
 Hindi 24
 Eng 24
2. Maths 22
 Science 21
 S.St 18
 Hindi 24
 Eng 21
3. 0 22
 1 24
 2 24

4. ERROR

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

16	4160	Pandas provide _____ function to check any value is missing or not available in a DataFrame. 1. empty 2. isempty() 3. null() 4. isnull() (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
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Q.Type : Objective Question

17	4161	To save the graph plotted using matplotlib as an image with the name x.png we may use _____. 1. matplotlib.pyplot.saveimg('x.png') 2. matplotlib.pyplot.savepic('x.png') 3. matplotlib.pyplot.savefig('x.png') 4. matplotlib.pyplot.saveimage('x.png')	4.0	1.00
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		(A) 1		
		(B) 2		
		(C) 3		
		(D) 4		
Q.Type : Objective Question				
18	4162	import matplotlib.pyplot as plt import pandas as pd height=[121.9,124.5,129.5,134.6,139.7,147.3,152.4,157.5,162.6] weight=[19.7,21.3,23.5,25.9,28.5,32.1,35.7,39.6,43.2] df=pd.DataFrame({"height":height,"weight":weight}) #Set xlabel for the plot plt.xlabel('Weight in kg') #Set ylabel for the plot s.plot() plt.ylabel('Height in cm') #Set chart title: _____1 #plot using marker '*' and line colour as green plt.plot(df.weight,df.height,marker='*',markersize=10,color='green',linewidth=2, linestyle='dashdot') _____2 Fill in the statements 1 and 2,to add the title as 'Average weight vs average height' to the chart and display the plot respectively. 1. plt.title('Average weight vs average height'),plt.display() 2. plt.text('Average weight vs average height'),plt.show() 3. plt.title('Average weight vs average height'),plt.show() 4. plt.text('Average weight vs average height'),plt.display() (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
19	4163	URL stands for 1. Unified Resource Locator 2. Uniform Resource Locator 3. Uniform Resource Loader 4. Unified Resource Loader (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
20	4164		4.0	1.00

		The WhatsApp call is an example of _____. 1. ISP 2. IM 3. VoIP 4. DNS (A) 1 (B) 2 (C) 3 (D) 4		
Q.Type : Objective Question				
21	4165	Read the text and mark the correct answer: Ramesh had been developing a game using python programming for 6 months. Rahul, his friend liked his idea and took the code in his pen drive and used it for his class XII Computer Science Project and made his documentation using the same code. In the bibliography section of the project he mentioned the names of the books used to understand the code and websites that Ramesh would have used to make the code. This is an example of: 1. Hacking 2. Cyber Theft 3. Plagiarism 4. Good Cyber Practice (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
22	4166	_____ contains the dos and don'ts with respect to the software being purchased. It covers all clauses of software purchase, viz., how many copies can be installed, whether source is available, whether it can be modified and redistributed and so on. 1. EULA (End User License Agreement) 2. CC Licence (Creative Commons Licence) 3. GPL (General Public Licence) 4. CA (Certifying Authority) (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
23	4167		4.0	1.00

Arrange the python statements to create a code to export Data from Pandas to MySQL(Database name is LOCATION)

- A. >>>import pandas as pd
>>>import pymysql as py
>>>import sqlalchemy
- B. >>>data= { 'ShowRoomId':[1,2,3,4], 'Location':['Delhi','Mumbai','Chandigarh','Kerala']}
- C. >>>df=pd.DataFrame(data)
- D. >>>df.to_sql('showroom_info',engine,if_exists="replace",index=False)
- E. >>>engine=create_engine('mysql+pymysql://root:smsmb@localhost:3306/LOCATION')

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

1. A, E, D, C, B
2. A, E, B, C, D
3. A, E, B, D, C
4. A, B, E, D, C

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

24

4168

Match the **LIST-I** with **LIST-II**

LIST-I		LIST-II	
A.	Cookies	I.	To store and deliver the contents of a website to clients such as a browser that request it.
B.	Ethernet	II.	Connects the computer to the network through NIC
C.	Modem	III.	A text file, containing a string of information, which is transferred by the website to the browser when we browse it.
D.	Web Server	IV.	A device used for conversion between analog signals and digital bits

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

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

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

25

4169

4.0

1.00

4.0

1.00

Which of these are the correct syntax to find the substring of ITEM column starting from second character from the following table?

STATIONERY			
ITEM	DATE_OF_PURCHASE	MAKE	QTY
PENS	23-04-2024	CELLO	10
PENCILS	01-04-2023	NATRAJ	50
SHARPENERS	15-04-2024	CELLO	30
CELLOTAPES	03-04-2023	CELLO	20
SHARPENERS	08-04-2024	NATRAJ	20
PENS	23-04-2024	DOMS	10
PENS	01-04-2023	ADD GEL	50

- A. SELECT SUBSTR(ITEM,2) FROM STATIONERY;
 B. SELECT INSTR(ITEM,2) FROM STATIONERY;
 C. SELECT MID(ITEM,2) FROM STATIONERY;
 D. SELECT SUBSTRING(ITEM,2) FROM STATIONERY;
 E. SELECT MIDSTRING(ITEM,2) FROM STATIONERY;

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

1. A and D Only
2. A, C and D Only
3. A Only
4. D Only

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

26 4170

The general syntax is: matplotlib.pyplot.plot(kind), where kind accepts a string indicating the type of plot, Which of these are the valid arguments accepted by kind for different plot?

- A. line
 B. bar
 C. barh
 D. histogram
 E. lineh

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

1. A, B and D Only
2. A, B and C Only
3. A and D Only
4. A, B and E Only

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

27 4171

Match the **LIST-I** with **LIST-II**

LIST-I		LIST-II	
A.	DataFrame.index	I.	To display data type of each column in the DataFrame
B.	DataFrame.dtypes	II.	To display row labels
C.	DataFrame.shape	III.	To display a tuple representing the dimensionality of the DataFrame
D.	DataFrame.size	IV.	To display the number of values in dataframe

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

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

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

28 4172

Foreign key ensures _____

1. Uniqueness of data
2. Referential Integrity
3. Not null values
4. Duplicity of values

(A) 1

(B) 2

(C) 3

(D) 4

4.0

1.00