

PREVIEW QUESTION BANK(Single)

Module Name : NCET Language: ENGLISH
 Section Name : 308-Computer Science
 Exam Date : 29-Apr-2025 Batch : 09:00-12:00

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Ne M																																													
Section : 308-Computer Science																																																	
Topic : Topic 88																																																	
Q.Type : Objective Question																																																	
1	4117	*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	4118	*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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3	4119	*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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FREYA	XI	02-04-2016	6127	12-01-2004																																								

Q.Type : Objective Question

4	4120	*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
FURNITURE																																																	
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ALMIRAH	IRON	08-04-2024	20	6000																																													

		(D) 4		
Q.Type : Objective Question				
5	4121	*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	4122	*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	4123	*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	4124	*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	4125	*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 4126

***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 89

Q.Type : Objective Question

11 4127

4.0

1.00

Read the following python code and select the correct output:

```
try:
    x=[1,2,3,4,5,7]
    for i in range(len(x)+1):
        t=x[i]/i+1
        print(t)
except ZeroDivisionError:
    print ("Denominator as ZERO is not allowed")
except IndexError:
    print ("We are out of INDEX")
else:
    print ("No Error Occurred")
finally:
    print ("Exception Handled")
```

1. Denominator as ZERO is not allowed
Exception Handled
2. We are out of INDEX
Exception Handled
3. Denominator as ZERO is not allowed
We are out of INDEX
Exception Handled
4. No Error Occurred
Exception Handled

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

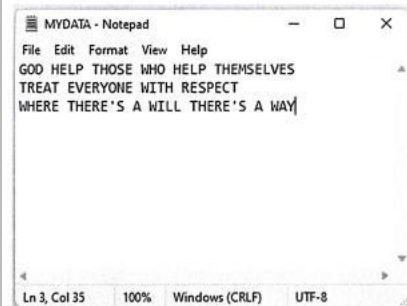
12

4128

4.0

1.00

A text file named MYDATA.txt contains the data as given below:



Consider the python code statements written below and select the correct output.

```
>>>Fobj=open("MYDATA.txt")
>>>X=Fobj.read(4)
>>>X=Fobj.readline( )
>>>Y=Fobj.readline(6)
>>>Y=Fobj.read( )
>>>print(X)
>>>print( )
>>>print(Y)
```

1. GOD HELP THOSE WHO HELP THEMSELVES

GOD HELP THOSE WHO HELP THEMSELVES
TREAT EVERYONE WITH RESPECT
WHERE THERE'S A WILL THERE'S A WAY

2. HELP THOSE WHO HELP THEMSELVES

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3. HELP THOSE WHO HELP THEMSELVES

EVERYONE WITH RESPECT
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4. GOD HELP THOSE WHO HELP THEMSELVES

EVERYONE WITH RESPECT
WHERE THERE'S A WILL THERE'S A WAY

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

13	4129	Given: <pre>X=open("mybin.dat","rb+")</pre> Which of these will result in an error? 1. X.seek(-8,2) 2. X.seek(2) 3. X.seek() 4. X.seek(4,0) (A) 1 (B) 2 (C) 3	4.0	1.00
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		(D) 4		
Q.Type : Objective Question				
14	4130	What will be the equivalent postfix notation of given infix expression: $7+8 \wedge 5-(34*7/3)$ 1. $7 \ 8 \ 5 \ \wedge + \ - \ 7 \ 34 \ */$ 2. $7 \ 8 \ 5 \ \wedge + \ 7 \ 34 \ */-$ 3. $7 \ 8 \ 5 \ + \ \wedge \ 7 \ 34 \ */-$ 4. $7 \ 8 \ 5 \ \wedge + \ 34 \ 7 \ * \ 3 \ /-$ (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
15	4131	Identify the data structure: This data structure does not apply any restriction on the side from which addition/removal of elements should happen, so it can be used to implement stack or queue in the program 1. FILE 2. Enqueue 3. Deque 4. Dequeue (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
16	4132	Given: <pre>def binarySearch(list, key): beg = 0 end = len(list) - 1 while(beg <= end): mid = (beg + end)//2 if list[mid] == key: return _____ # 1 elif key > list[mid]: beg = _____ # 2 elif key < list[mid]: end = _____ # 3 return -1</pre> what should be filled in the blanks for statements # 1, # 2 and # 3 to implement the binary search algorithm? 1. mid,mid-1,mid+1 2. mid-1,mid-1,mid-1 3. mid-1,mid,mid+1 4. mid,mid+1,mid-1 (A) 1	4.0	1.00

		(B) 2		
		(C) 3		
		(D) 4		
Q.Type : Objective Question				
17	4133	Given a list L=[9,6,14,2,-1,-4,5] What will be the state of list after the third pass of bubble sort? 1. [2,-1,-4,5,9,6,14] 2. [-1,-4,2,5,6,9,14] 3. [-4,-1,2,5,6,9,14] 4. [2,-1,-4,5,6,9,14] (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
18	4134	Identify the measures of Variability: It is calculated as the positive square root of the average of squared difference of each value from the mean value of data 1. Mean 2. Median 3. Standard deviation 4. Range (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
19	4135	The Domain of field depends on: 1. The data type of the field 2. The constraints applied on the field. 3. Both the data type of the field and the constraints applied on it. 4. Either the data type of the field or the constraints applied on it. (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
20	4136		4.0	1.00

Consider the database table given below:

STATIONERY			
ITEM	DATE_OF_PURCHASE	MAKE	QTY
PENS	23-04-2024	CELLO	10
PENCILS	01-04-2023	NATRAJ	50
PENCILS	13-04-2023	APSARA	30
SHARPENERS	15-04-2024	CELLO	30
STAPELERS	14-04-2023	CELLO	10
CELLOTAPES	03-04-2023	CELLO	20
SHARPENERS	08-04-2024	NATRAJ	20
PENS	23-04-2024	DOMS	10

What should be the command to display the duplicate item names only once?

1. SELECT UNIQUE ITEM FROM STATIONERY;
2. SELECT DISTINCT ITEM FROM STATIONERY;
3. SELECT ITEM FROM STATIONERY WHERE ITEM=DISTINCT;
4. SELECT ITEM FROM STATIONERY WHERE ITEM=UNIQUE;

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

21 4137

Consider the table club given below:

Cid	Cname	Age	Gender	Sports	Pay	DOJ
4687	Shyam	37	Male	Cricket	1300	2004/04/15
1245	Meena	23	Female	Skating	1000	2007/06/18
1622	Amri	28	Male	Karate	1000	2007/09/05
1256	Amina	36	Female	Chess	1100	2003/08/15
1720	Manju	33	Female	Karate	1250	2004/04/10
2321	Virat	35	Male	Cricket	1050	2005/04/30

What should be the query to find the sum of pay of the candidates who have been working since 2004;

1. SELECT sum(Pay) from club where DOJ>= "2004";
2. SELECT sum(Pay) from club where Date(DOJ)>= 2004;
3. SELECT sum(Pay) from club where year(DOJ)>= "2004";
4. SELECT sum(Pay) from club where year(DOJ)>= 2004;

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

22 4138

Consider the database table RESULT given below:

RESULT			
STUDENT_ID	NAME	STREAM	TOTAL_SCORE
S-111	MAYA	SCIENCE	514
S-112	SNEHA	SCIENCE	468
S-113	HEENA	COMMERCE	562
S-114	NEHA	HUMANITIES	587
S-115	SHIPRA	HUMANITIES	555
S-116	SPARDHA	HUMANITIES	549
S-117	HEMA	COMMERCE	526

What should be the output of given SQL command?

SELECT AVERAGE(TOTAL_SCORE), STREAM FROM RESULT GROUP BY STREAM
HAVING STREAM LIKE “%S%E” AND AVERAGE(TOTAL_SCORE)>500;

1.

AVERAGE (TOTAL_SCORE)	STREAM
491	SCIENCE
571	HUMANITIES

2.

AVERAGE (TOTAL_SCORE)	STREAM
491	SCIENCE

3.

AVERAGE (TOTAL_SCORE)	STREAM
571	HUMANITIES

4. Empty set

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

23 4139

Each Network Interface card has a unique _____, which helps in uniquely identifying the computer on the network.

1. URL
2. IPv4 Address
3. MAC Address
4. IPv6 Address

(A) 1

(B) 2

(C) 3

(D) 4

4.0

1.00

Q.Type : Objective Question

24 4140

4.0

1.00

Arrange the given milestones of evolution of computer networks in the correct order. (from oldest to newest)

- A. TCP/IP
- B. NSFNET
- C. WWW
- D. ARPANET
- E. INTERNET

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

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

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

25	4141	Which of the given statements are true about binary file handling? A. Binary files can be read from and written to a text editor. B. Binary files can only be opened in 'ab+' mode. C. The Pickle module is used for serializing and de-serializing any Python object structure. D. load() method is used to do unpickling of data from a binary file. E. The data to be stored in binary file should always be stored as list object. Choose the correct answer from the options given below: 1. C and D Only 2. B and D Only 3. C, D and E Only 4. B and E Only (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
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Q.Type : Objective Question

26	4142		4.0	1.00
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Which of the given conditions can be used to check if the STACK is empty?

(Assume the name of the list object used to implement stack is *ST*)

- A. If $ST == 0$:
 print("stack is empty")
- B. If $\text{len}(ST) == 0$:
 print("stack is empty")
- C. If $ST == []$:
 print("stack is empty")
- D. If not ST :
 print("stack is empty")
- E. If not $ST == 0$:
 print("stack is empty")

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

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

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

27

4143

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

4.0

1.00

LIST-I		LIST-II	
A.	Database Schema	I.	A database catalog or dictionary that contains information about the schema and the constraints.
B.	Meta Data	II.	The state of database at any given time.
C.	Database Instance	III.	It is the skeleton of the database that represents the structure, the type of data each column can hold, constraints on the data to be stored (if any), and the relationships among the tables.
D.	Database Engine	IV.	The underlying components or set of programs used by a DBMS to create database and handle various queries for data retrieval and manipulation.

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

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

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

28

4144

4.0

1.00

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

LIST-I		LIST-II	
A.	Firewall	I.	Secretly listening to a conversation. In the context of networking, it refers to the process of secret capture and analysis of network traffic. The network traffic captured can be used later.
B.	Snooping	II.	A scenario, wherein an attacker (Hacker) limits or stops an authorized user to access a service, device, or any such resource by overloading that resource with illegitimate requests
C.	Eavesdropping	III.	Unauthorized real-time interception or monitoring of private communication between two entities over a network
D.	DoS	IV.	Protects a trusted private network from unauthorized access or traffic originating from an untrusted outside network

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

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

(A) 1

(B) 2

(C) 3

(D) 4