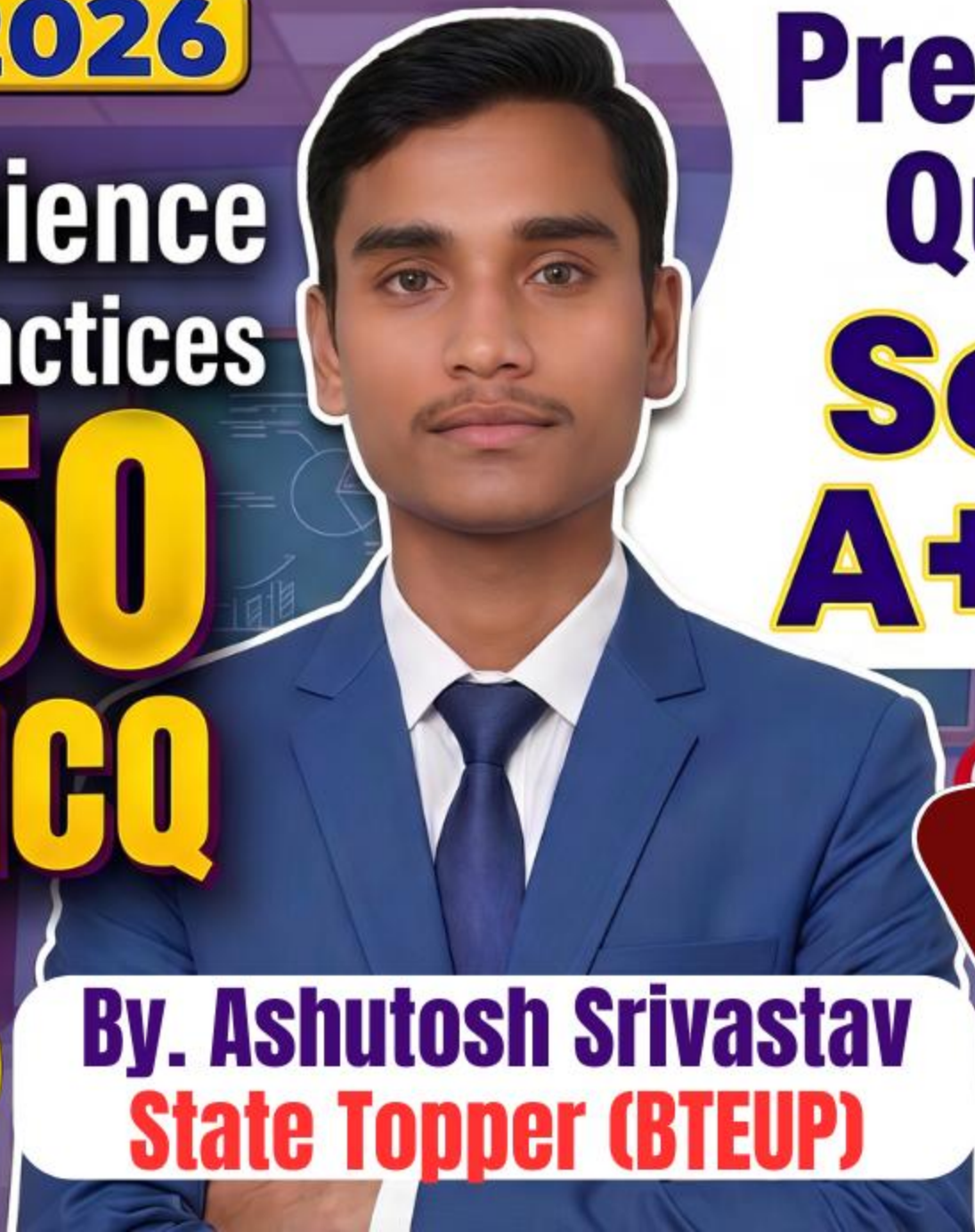
CUET UG 2026

Computer Science
Informatics Practices

TOP 50
PYQ + MCQ

PART 1



Previous Year Questions

Section A+B1+B2

DOMAIN / LATERAL STUDENTS

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Q.1

If a database contains duplicate data in multiple data files, this scenario leads to _____ .

1. Data Integrity
2. Data Insecurity
3. Data Inconsistency
4. Data Redundancy

4

Options
1. 1
2. 2
3. 3
4. 4

Q.2

Match **List-I** with **List-II**

List-I	**List-II**
(SQL Query)	**(Result)**
(A). SELECT DAY("2010-09-08");	(I). 4
(B). SELECT MONTH("2015-09-08");	(II). 8
(C). SELECT MOD(MONTH("2020-09-03"),4);	(III). 9
(D). SELECT POW(DAY("2023-02-02"),2);	(IV). 1

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

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

Q.3

Identify the correct statement in order to delete all the rows of a table 'EMPLOYEE' without deleting the structure:

1. DELETE FROM EMPLOYEE;
2. DELETE TABLE EMPLOYEE;
3. DROP FROM EMPLOYEE;
4. DROP TABLE EMPLOYEE;

1

Q.4

Which network topology required a central controller or hub?

1. Star Topology
2. Bus Topology
3. Tree Topology
4. Mesh Topology

1

Q.5

A table consist of 10 rows and 5 columns. What is the cardinality and degree of the table if 4 rows are deleted and 3 columns are added?

1. Cardinality = 8 and Degree = 6
2. Cardinality = 6 and Degree = 8
3. Cardinality = 7 and Degree = 1
4. Cardinality = 1 and Degree = 7

2

Options 1. 1

2. 2
3. 3
4. 4

10-4 = 6

5+3 =8

Q.6

Identify the type of topology that has the benefits of short cable length, simple wiring layout and easy to extend.

1. Star Topology
2. Tree Topology
3. Bus Topology
4. Mesh Topology

Options 1. 1

2. 2

3. 3

4. 4

Q.7

Table: 'STUDENT'

rollnumber	name	course
1	Ajay	Science
2	Ankita	Commerce
3	Anmol	Science
4	Bharti	Science
5	Karan	Commerce
6	Mohit	Arts

Consider the given query:

```
SELECT COURSE, COUNT(*) FROM STUDENT GROUP BY COURSE HAVING COURSE="Science";
```

What is the use of the 'HAVING' clause in the above query?

1. To filter out the column groups.
2. To filter out the summary groups.
3. To filter and sort the data.
4. To filter out the row and column values.

Options
1. 1
2. 2
3. 3
4. 4

Q.8

The first computer network was:

1. NSFNet
2. FirstNet
3. ARPANet
4. Internet

Options 1. 1
2. 2
3. 3
4. 4

Q.9

Given Table - 'Employee'

Attributes - EmployeeID, Name, Salary

Identify the correct query for performing the following operations:

Increasing the salary by 40% of all employees.

1. UPDATE EMPLOYEE SET SALARY = SALARY*0.40;
2. MODIFY EMPLOYEE SET SALARY = SALARY*0.40;
3. UPDATE EMPLOYEE SET SALARY = SALARY*1.40;
4. MODIFY EMPLOYEE SET SALARY = SALARY*1.40;

Options 1. 1
2. 2
3. 3
4. 4

3

1+40%

1+0.40

1.40

Q.10

Identify a network where a client can also act as a server if need arises:

1. Peer-to-Peer Network
2. Client-Server
3. Wide Area Network
4. Personal Area Network

1

Options 1. 1

2. 2
3. 3
4. 4

Q.11

Which of the following holds **TRUE** about relations in a relational database management system?

(A) Ordering of rows is immaterial.

(B) No two rows are identical.

(C) Ordering of columns is immaterial.

(D) No two columns are identical.

1. (A), (B) and (C) only
2. (A), (B) and (D) only
3. (B), (C) and (D) only
4. (A), (B), (C) and (D)

1

Options 1. 1

2. 2
3. 3
4. 4

Q.12

Given table 'st_marks':

rollno	name	marks
1	Shagun	85
2	Sukhi	63
3	Zoya	86
4	Irfan	NULL
5	Maya	52

Find the output:

SELECT AVG(marks) FROM st_marks;

1. 57.0
2. 71.0
3. 57.2
4. 71.5

4

286/4

71.5

Q.13

Which concept of the relation is shown by the following query?

```
SELECT EMPLOYEE.EMPID, EMPLOYEE.NAME, ORDER.ORDERID, ORDER.ORDERDATE
FROM EMPLOYEE, ORDER;
```

1. EQUI-JOIN
2. NATURAL JOIN
3. OUTER JOIN
4. CARTESIAN PRODUCT

4

Options 1. 1
2. 2
3. 3
4. 4

Q.14

Identify the syntactically correct SQL query in order to insert a record in the table 'STUDENT' having attributes as admission_no, name, marks.

1. INSERT INTO STUDENT(201,"RANBIR",25);
2. INSERT INTO STUDENT VALUES(201,"RANBIR",25);
3. INSERT INTO STUDENT(admission_no,name,marks)(201,"RANBIR",25);
4. INSERT INTO STUDENT VALUE(201,"RANBIR",25);

2

Options

1. 1
2. 2
3. 3
4. 4

Q.15

Given a table : 'Student' having attributes [Admission_number, Roll_no, Name, Marks]

The primary key **Admission_number** of this table is selected from the set of :

1. Foreign keys
2. Candidate Keys
3. Unique Keys
4. Alternate Keys

2

Options 1. 1

2. 2
3. 3
4. 4

Q.16

'ABC' company is a professional company. The company is planning to set up their new offices in India. As a network advisor, suggest them where they should place the server, after studying the following scenario.

Expected number of computers in each block:

BLOCK	NO. OF COMPUTERS
HUMAN	25
FINANCE	120
CONFERENCE	90
ADMIN	400

1. HUMAN
2. FINANCE
3. CONFERENCE
4. ADMIN

4

Options 1. 1

2. 2

3. 3

4. 4

Q.17

_____means same data are duplicated in different places (files).

1. Data Redundancy
2. Data Inconsistency
3. Data Isolation
4. Controlled Data Sharing

1

Options 1. 1

2. 2
3. 3
4. 4

Q.18

Match **List-I** with **List-II**

List-I	**List-II**
(A) The topology in which each communicating device is connected with every other device in the network.	(I) Chatting
(B) A device that connects organisation's network with the outside world Internet.	(II) Mesh
(C) An online textual and multimedia conversation.	(III) Incognito
(D) Private Browsing	(IV) Gateway

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

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

2

Options

1. 1
2. 2
3. 3
4. 4

Q.19

Identify the purpose of the given algorithm :

Step 1: SET i = 0

Step 2: WHILE i< n, REPEAT STEPS 3 to 8

Step 3: SET j = 0

Step 4: WHILE j< n-i-1, REPEAT STEPS 5 to 7

Step 5: IF numList[j] < numList[j+1] THEN

Step 6: swap(numList[j], numList[j+1])

Step 7: SET j=j+1

Step 8: SET i=i+1

1. A bubble sort algorithm to sort a list in ascending order.
2. A selection sort algorithm to sort a list in descending order.
3. A selection sort algorithm to sort a list in ascending order.
4. A bubble sort algorithm to sort a list in descending order.

4

Options 1. 1
2. 2
3. 3
4. 4

Q.20

Identify the type of expression where operators are placed after the corresponding operands like x y * z +; 3 4 5 + *; x y + z 5 * /

1. Infix Expression
2. Polish Expression
3. Reverse Polish Expression
4. Prefix Expression

x+y

+xy

3

xy+

Options 1. 1

2. 2

3. 3

4. 4

Q.21

Identify the incorrect method of Malware Identification used by Antivirus:

1. Sandbox detection
2. Real-time protection
3. Signature-based detection
4. Spam

4

Options 1. 1

2. 2
3. 3
4. 4

Q.22

Identify the incorrect built in exception from the following:

1. ValuesError
2. EOFError
3. KeyboardInterrupt
4. IndentationError

4

Options 1. 1

2. 2
3. 3
4. 4

Q.23

A deque contains 'a', 'p', 'l', 'm' and 'n' . Elements received after deletion are 'a', 'n', 'm', 'p' and 'l'. _____ is the sequence of deletion operations performed on the deque.

1. DeletionFront DeletionRear
   DeletionRear

   DeletionFront

   DeletionRear
2. DeletionRear DeletionFront
   DeletionRear

   DeletionFront

   DeletionRear
3. DeletionFront DeletionRear
   DeletionRear

   DeletionRear

   DeletionFront
4. DeletionFront DeletionFront
   DeletionRear

   DeletionFront

   DeletionFront

a , p , l , m , n

a , n , m , p , l

1

Q.24

_____ indicate the degree of diversity in a data set or difference within the group.

1. Mean
2. Mode
3. Measures of Dispersion
4. Median

3

Options 1. 1
2. 2
3. 3
4. 4

Q.25

Identify the ***incorrect*** statements with respect to Wired Transmission Media:

(A) There is a physical link made of wire/cable through which data in terms of signals are propagated between the nodes.

(B) An example of wired transmission media is Radio waves.

(C) It is also known as guided transmission.

(D) Data travels in air in terms of electromagnetic waves using an antenna.

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

1. (A) and (C) only
2. (A), (B) and (D) only
3. (A), (B) and (C) only
4. (B) and (D) only

1

Options 1. 1

2. 2

3. 3

4. 4