TERM 2 – ANNUAL EXAMINATION (2021-22)
SUBJECT – INFORMATICS PRACTICES (065)
CLASS XI

SET 2

Time: 90 minutes   **Maximum Marks: 35**

General Instructions

- The question paper is divided into 3 sections – A, B and C
- Section A, consists of 7 questions (1-7). Each question carries 2 marks.
- Section B, consists of 3 questions (8-10). Each question carries 3 marks.
- Section C, consists of 3 questions (11-13). Each question carries 4 marks.
- Internal choices have been given for question numbers – 1 , 3, 6 and 8

Section –A
Each question carries 2 marks

1. Anirudh is a new student and trying understand MySQL Commands. Now he wanted to remove an entire table named test from database and wrote the following statement.

    delete from test;

    Will the statement deliver its purpose? Explain him the working of given statement and Help him to write correct DDL statement

OR

    List any 4 limitations of file system that can be overcome by a relational DBMS?

2. **a)** I :
    - Form a network of related computing devices and digital machines
    - Allow devices to exchange data using their unique ids
    - Can run security system without human intervention
    Who am I?

    b) What do you understand by Processor Grid ?

3. Predict the output of the following code:

```
for x in range(8,0,-2):
    if x>5:
        print(x)
print("value of x=", x)
```

OR

Briefly explain the purpose following python functions with example:
  i.   input()
  ii.   type()

4. Ms Akshita created a SQL table to store her class details. But she forgot to add primary key constraint to the table. Her friend said her it's very important for a table and you can add it even after creating it. If you are her friend how would you help her understand the importance and way to add it?

5. Vikash was going through importance points of Union Budget 2022. He came to read that, tax is imposed for crypto currency investments. He was curious to know more about crypto currencies and the technology used behind it. Being an IP student, how will you explain him the same. Give him advantages of the technology used behind crypto currency.

6. Consider the table **empnew** given below:

EMP_ID	EMP_NAME	DEPT	PAY
E001	AKSHAY	R&D	NULL
E002	SUSHMITA	DEVELOPMENT	45000
E003	VINODINI	DESIGN	50000
E004	MOHIT	DESIGN	40000
E005	SIVANDINI	DEVELOPMENT	50000

Write SQL commands to:
   a. To display names of employees whose pay is not available
   b. To display salaries of design department

OR

Predict the output for the following
   a.   select emp_id,dept from empnew where name like '_I%';
   b.   select pay+5000 as 'new pay' from empnew where dept<>"R&D";

7. Mr.Ashok was reading an article about immersive experiences and it's advantages in current era. But now he is confused with terms AR and VR. Help him to understand the difference between them with suitable examples

Section – B
Each question carries 3 marks

8. Mr. Malhotra is working on a MySQL table named 'Stud' with following table schema:

```
+--------+------------+------+-----+---------+-------+
| Field  | Type       | Null | Key | Default | Extra |
+--------+------------+------+-----+---------+-------+
| regno  | int        | NO   | PRI | NULL    |       |
| name   | varchar(30)| YES  |     | NULL    |       |
| marks  | int        | YES  |     | 0       |       |
| dob    | date       | NO   |     | NULL    |       |
+--------+------------+------+-----+---------+-------+
```

   i.   Which command is used to get the above table as output
   ii. Write the query to create the table and insert one record to it.

OR

Ms. Sakshy is preparing for her IP exam. But she is confused between the pop() and clear() list functions. Help her to distinguish between the same with help of examples

9. Write a python program to print multiplication table of any number entered by user

10. Write briefly about AI and its branches. How AI is influenced in our day to day life?

Section – C
Each question carries 4 marks

11. Consider the table purchase created by alan and help him to write queries for the following needs

   Table: purchase

ItemCode	ItemType	Company	UnitPrice	Stock
M008	Smart Phone	Micromax	12000	25
L005	Laptop	Acer	38500	12
M009	Smart Phone	Samsung	20000	23
L003	Laptop	Lenovo	55000	07
T006	Tablet	Acer	17000	35
L019	Laptop	Samsung	42000	15

   a) To decrease all unit price by 1000
   b) To change column name ItemCode to Icode
   c) To remove the column stock
   d) To remove details of tablet

12. Varun is a database administrator and he has created the following table stock for his client

TABLE: HOSPITAL

Name	Age	Department	Dateofadm	Charges	Sex
Arprit	62	Surgery	2008-01-21	1300	M
Zarina	22	ENT	2007-12-12	1250	F
Kareena	32	Orthopedic	2008-02-19	1200	M
Arun	12	Surgery	2008-01-11	1300	M
Zubin	30	ENT	2007-01-12	1250	M
Ketaki	16	ENT	2008-02-04	1250	F
Ankita	29	Cardiology	2008-02-20	1800	F
Zareen	45	Gynecology	2007-02-10	1300	F
Kush	19	Cardiology	2008-01-13	1800	M
Shilpa	23	Nuclear Medicine	2008-02-21	1400	F

He has written the following queries

 a) select Name,Dateofadm from hospital where department in ('ENT','Surgery')
 b) select Name,Department,Charges from hospital where age between 18 and 40;
 c) select Name from hospital where Sex="M" AND dateofadm>'2008-01-01';
 d) select distinct department as 'departments' from hospital where name like 'A%';

Help him in predicting the output of the above given queries.

13. Consider the given table **emp**:

SINo	Name	Desgnation	Salary
1	Arjith M	Tester	38000
2	Anu M N	Developer	48000
3	Benit Anto	Designer	46000
4	Cilona David	Developer	45000
5	Vincent Gomas	Content Writer	35000

Write queries to perform the following operations in SQL :

 a) To set salary column as unique constraint
 b) To modify salary data type to decimal
 c) To change designation of Vincent to 'UI Developer'
 d) To remove the table from database

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