2019 VI 13   **1430**   **Seat No.** ☐☐☐☐☐

Time : 2 Hours   **WEB TECHNOLOGY**

Subject Code

V	3	1	7

Total No. Of Questions : 5   **(Printed Pages : 6)**   **Maximum Marks : 50**

INSTRUCTION : (*i*)   *All* questions are compulsory.

                 (*ii*)   Figures to the right indicate full marks.

                 (*iii*)   Q. No. **1** based on Database concept.

                 (*iv*)   Q. No. **2** and Q. No. **3**A, B are based on MYSQL.

                 (*v*)   Q. No. **3**C, D and Q. No. **4** are based on PHP.

                 (*vi*)   Q. No. **5** is based on MYSQL and PHP connectivity.

1.   (A)   Name the term used to refer to the collection of all related record.   1

        (B)   What is a tuple ?   1

        (C)   Answer the following :   4

             (*i*)   Explain normalization in designing of a database.

             (*ii*)   Explain any *two* policies framed to protect data in a database.

(D) Answer the following (any *one*) :   4

     (*i*) State and explain any *four* advantages of DBMS.

     (*ii*) Explain the entity relationship model of Library System with a neat E-R diagram.

2. (A) Name the command which is used to remove an existing table.   1

   (B) Construct MYSQL query for the following :   1

To display the names of different cities by eliminating the duplicate records, from employee table.

   (C) Answer the following :   4

     (*i*) Explain Group by clause with an example.

     (*ii*) With an example explain join command.

   (D) Answer the following : (any *one*) :   4

     (*a*) Construct Mysql queries for the following :

     Table : Employee

     Fields : Empid, name, designation, date of birth, city, salary

       (*i*) Display name and date of birth of all the employees who are born in "January".

(*ii*)   To increase the salary of employees by 2000 only if salary less than 20000.

(*iii*)   Display name and city of employees, if the designation of the employee is either a Programmer or Operator.

(*iv*)   To add another field as Gender of the data type character and size 6.

(*b*)   Table : Inventory

Fields : Itemid, Item_name, price, qty

(*i*)   To arrange the records as per price in descending order.

(*ii*)   Display Itemid, Item_name of all items where quantity is between 5 to 10.

(*iii*)   To remove the records where item_name is "Transistor".

(*iv*)   Display name of all items whose price is greater than 10000.

3.   (A)   Name the function which finds total number of characters in a given string.   1

(B)   Answer the following :   4

(*i*)   State any *two* differences between view and table.

(*ii*)   Explain any *four* aggregate functions.

(C)   What is the full form of PHP ?   1

(D)   Answer the following :   4

     (*i*)   Explain User Defined Function with an example.

     (*ii*)   With an example explain Array_push( ).

4.   (A)   Name the mode which is used to write only. Opens and clears the content

       of file or creates new file if it doesn't exist.   1

   (B)   What is the use of file upload ?   1

   (C)   Answer the following :   4

     (*i*)   State any *two* difference between $_Get( ) and $_Post( ).

     (*ii*)   Explain in brief PHP session.

   (D)   Answer the following (any *one*) :   4

     (*i*)   Write a PHP code to print 10 numbers in Fibonacci series.

     (*ii*)   Write PHP code to print occurrence of each vowel in a given

          sentence.

5.   (A)   Explain Mysql_connect( ) with an example.   2

(B) Explain the following segment of PHP code. 4

    (*i*) $sql = mysql_query ("select name, city from employee where state like " ___ ___ ___");

    (*ii*) $result = mysql_query ("select rollid, name from student limit 2, 2");

(C) Answer the following (any *one*) : 4

    (*i*)   Write a PHP code to delete a record using student_id

           Database : Student

           Table : Std_table

           Fields : Student_id, name, address, gender

Student Id : [_____]

[DELETE]

After deleting record print a report in the format given below :

Student Id	Name	Address	Gender

(*ii*)   Write the PHP code to calculate gross salary paid to the employees.

Database : Employee

Table : Emp_table

Fields : Empid, name, Basic salary

Calculations :

DA = 30% of Basic salary

HRA = 15% of Basic slary

TA = 10% of Basic salary

Gross = Basic salary + DA + HRA + TA

Print a report as follows :

Salary Report

Empid	Name	Basic salary	DA	HRA	TA	Gross salary