[This question paper contains 6 printed pages.]

5543 *Your Roll No.* ....

B.A. (Prog.) / II   D

Paper II : COMPUTER APPLICATION

(Database and Internet Technologies)

(Admissions of 2004 and onwards)

Time : 3 Hours   *Maximum Marks : 45*

*(Write your Roll No. on the top immediately
on receipt of this question paper.)*

Question 1 **(Part-'A')** *is Compulsory.*
Attempt any **three** *questions from*
Part - 'B' (Q. 2 – Q. 6)

PART – A

1. (a) Define Simplex, Half-duplex and Full-duplex
    transmission modes.   (3)

    (b) Give one advantage and disadvantage of e-mail.
                                              (2)

    (c) What is the full form of DDL ? Give any two
    examples of DDL commands.   (3)

P.T.O.

(d) What will be the output of the following line of code :

document.write('eval("22.33*10")=') (1)

(e) Write HTML code to create the following form :

Username : [   ]

Password : [   ] (4)

(f) What are Primary and Foreign keys ? (2)

PART – B

2. (a) Explain FTP protocol. (3)

(b) Describe the following network devices :

   (i) Switch

   (ii) Router (4)

(c) Give two differences between circuit switching and packet switching. (3)

3. (a) Define Normalization and give two advantages of normalization. (3)

(b) Consider the following tables : (4)

Employee (Employee_ID, Department_ID, Employee_Name, Salary)

Department (Department_ID, Department_Name, Supervisor)

Write SQL commands to perform the following operations :

(i) Find names for all employees who work for the "Accounts" department.

(ii) How many employees work in the "Accounts" department ?

(iii) Delete all rows for employee of "Apprentice" department.

(iv) Give all employees of "Sales" department a 10% rise in salary.

(c) Give three advantages of Database systems. (3)

4. (a) Define the following :

(i) Entity

(ii) Attribute

(iii) Degree of relation   (3)

(b) What are the responsibilities of Database Administrator ?   (3)

(c) Write short notes on the following :

(i) Data warehousing

(ii) Data mining   (4)

5. (a) Write Java Script to create following form :

Enter X   [   ]

Enter Y   [   ]

Enter Z   [   ]

Smallest   [   ]

This form takes input from user. User enters 3 numbers X,Y and Z. When user moves in Input box with label "Smallest", smallest of 3 numbers is displayed there. (5)

(b) Write the Java Script commands to perform following :

(i) To display message "This is a Java Script Code." on the document.

(ii) To display alert message "Warning: Your System will Crash, if you execute this command!!"

(iii) To change the background color of document to "blue". (3)

(c) Write the event handlers for Click and Change events. (2)

6.   (a) Write HTML code for displaying Web page shown below :   (4)

<u>Computer Memory</u>

    A. Primary Memory

       1. Read only memory (ROM)

       2. Random Access Memory (RAM)

    B. Secondary Memory

       1. Hard Disk

       2. Floppy Disk

       3. Pen-Drive

       4. Blue Disk

       5. CD-ROM

   (b) What are frames and frame sets? In which condition <NOFRAMES> tag is used by a browser.   (3)

   (c) State the output of the following program :   (3)

```
<html>
<body>
<h4>Table 1</h4>
<table border="1">
```

```
<tr>

<th>First Name:</th>

<td>Jace Dunn</td>

</tr>

<tr>

<th rowspan="2">Telephone:</th>

<td>555 67 854</td>

</tr>

<tr>

<td>555 67 855</td>

</tr>

</table>
</body>
</html>
```