This question paper contains **4** printed pages]

Roll No. ☐☐☐☐☐☐☐☐☐☐☐

S. No. of Question Paper : **2308**

Unique Paper Code : **62344328**

Name of the Paper : **Computer Networks and Internet Technologies**

Name of the Course : **B.A. Programme—Computer Application (CBCS)**

Semester : **III**

Duration : **3 Hours**

GC-3

Maximum Marks : **75**

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

Question No. **1** is compulsory.

Attempt any *Five* questions from Question Nos. **2** to **8**.

Parts of a question must be answered together.

Marks are indicated against each question.

1. (*a*) How a picture can be set as a background on web pages ?

    2

   (*b*) Write the difference between <BR> and <P> tag.

    2

   (*c*) Explain with an example the onclick event of Button type element.

    2

   (*d*) What will be the output of "10" + 20 + 30 in JavaScript ?

    2

   (*e*) Expand and briefly explain VSAT.

    3

   (*f*) List any *two* advantages and two disadvantages of Star topology.

    2

   (*g*) What are the *four* characteristics on which the effectiveness of data communication depends ? Explain.

    4

(h) What is the difference between radio button and check box ? Explain with the help of an example.   3

(i) What are advantages of using frames in HTML ?   2

(j) Write names of all guided media. Explain any *one* of them.   3

2. *(a)* Write an HTML code to generate the following output :   5

Hardware devices :

   (i) CD-ROM drive

   (ii) DVD drive

   (iii) Hard disk

   (iv) Modem

Web Languages :

   (i) HTML

   (ii) JavaScript

   (iii) PHP

   (iv) Java.

(b) Write the syntax to insert an image in the document. Also explain the attributes to align image in a HTML document.   5

(a) Write JavaScript code to generate the following form with the required functionality. 5

X [   ]   Y [   ]   Z [   ]

Greatest Number [   ]

[Calculate]

Required functionality : user should enter three numbers x, y, z. On pressing calculate button, the number which is greatest among them should be displayed in the box designated. Code must give the proper message if any one of the numbers is not entered.

(b) What are data types in JavaScript ? Explain any *four* data types. 5

Differentiate between : 10

(a) Multipoint and point-to-point connections

(b) Frame and packet

(c) Routers and gateways

(d) Connection Oriented *Vs.* Connectionless data transmission.

5. (a) What are the difficulties in web browsing using mobiles as compared to using desktop computers ? List any *five*. 5

   (b) What are the functions of Network layer ? In TCP/IP model which protocol works at the network layer level ? 3+2

6. (a) Compare and contrast data communication through satellites and terrestrial point-to-point links. 5

   (b) What are three data transmission modes ? Explain with examples. 5

7. (a) What is the use of GET and POST methods ? Give syntax with example. 5

   (b) Create the following output in HTML. 5

   ```
                    *
             *      *
        *    *      *
   ```

8. Write short notes on :

   (a) Data link layer

   (b) Remote logging

   (c) Web streaming

   (d) Real Time Conferencing.