[This question paper contains 4 printed pages.]

Sr. No. of Question Paper : 6263　　　　**G**

Unique Paper Code　　　: 62344330

Name of the Paper　　　: Computer Networks and HTML

Name of the Course　　: **B.A. Program**

Semester　　　　　　　: III [Year of Admission – CBCS-LOCF]

Duration : 3 Hours　　　　　　Maximum Marks : 75

## Instructions for Candidates

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

2. Question No. **1** is compulsory.

3. Attempt any **5** Questions from **Section B**.

4. All parts of a question must be answered together.

### Section – A

1. (a) What do you understand by full duplex channel? How is it different from half duplex communication? (5)

   (b) With the help of diagram explain Ring topology also state it's any two advantages and disadvantages over other topologies. (5)

P.T.O.

(c) Describe the use of following HTML tags :   (5)

    (i) <sup>text</sup>

    (ii) <tr>

    (iii) <ul>

    (iv) <br>

    (v) <hl>

(d) Write the use of following network devices : (2)

    (i) Switch

    (ii) Repeater

(e) List the different ways of using CSS in HTML documents.   (3)

(f) What is crosstalk? Which type of cables are used to minimize crosstalk?   (2)

(g) Write the HTML code for creating the following :
$$2A_1 + 3A_2 = B^2$$   (3)

## Section – B

2. (a) What is TCP/IP? Diagrammatically represent all the layers of the OSI model.   (6)

   (b) Describe any two types of unguided media on the basis of propagation methods, range and their applications.   (4)

3. (a) Write HTML code for creating a web page containing the below given list items.   (5)

## List of Operating Systems

i. Linux
- a. Ubuntu
- b. Red Hat
- c. Kali Linux

ii. Windows
- o Windows 7
- o Windows 10
- o Windows 11

(b) What are radio waves? Which type of antennas are used for radio waves? Write any one application of radio waves. (5)

4. (a) Write an HTML code to create the following table : (5)

| Student Details | | |
|---|---|---|
| Name: | Rohan Mittal | Insert an Image |
| Course: | B.A. (Programme) | named Mypic.jpg |
| Address: | Delhi | here |

(b) With the help of diagram describe different parts of an Optical Fiber. Describe the process of light transmission through optical fiber. (5)

5. (a) What is the use of URL? Briefly explain static and dynamic web pages with examples. (6)

P.T.O.

(b) Briefly explain Peer-to-Peer network with the help of an example. (4)

6. Write HTML code to create the below given form. (10)

## Application Form

First Name: [          ]  Last Name: [          ]

Date of birth: [mm / dd / yyyy]  Age: [          ]

Gender: [Male  ˅]  Email Address: [Enter email address]

Positions Available:  ○ Junior Developer  ○ Mid-level Developer  ○ Senior Developer

Programming Languages:  ☐ Java  ☐ JavaScript  ☐ Python

Password: [          ]  Confirm Password: [          ]

[Submit]  [Reset]

7. Write short notes any five from the following : (10)

(i) FTP

(ii) SMTP

(iii) TELNET

(iv) DNS

(v) Search engines

(vi) HTTP

(500)