

[This question paper contains 4 printed pages.]

Your Roll No.....

**Sr. No. of Question Paper : 974** **I**  
Unique Paper Code : 32345301  
Name of the Paper : Computer Networks and Internet Technologies  
Name of the Course : **Computer Science : G.E. for Honours**  
Semester : III  
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. All questions in 'Section A' are compulsory.
3. Attempt any **five** questions from 'Section B'.
4. Parts of a question should be answered together.

**Section A**

1. (i) Identify a layer of the OSI model responsible for the following functions :
  - (a) Route Determination
  - (b) Interface to Transmission Media
  - (c) Providing access for the end user
  - (d) Flow control

(2)

P.T.O.

- (ii) Differentiate between the terms Internet and Intranet. (2)
- (iii) List any two advantages of a multipoint connection over a point-to-point connection. (2)
- (iv) Differentiate between TCP and UDP. (2)
- (v) Define Functions in JavaScript. How are these different from methods? (2)
- (vi) Differentiate between Break and Continue statements with suitable example. (2)
- (vii) Differentiate between Alert and Confirm dialogue boxes. (2)
- (viii) Explain any two attributes of Table tag with example in HTML. (2)
- (ix) What is the significance of the twisting in twisted pair cable? (2)
- (x) Differentiate between Hub and Repeater. (2)
- (xi) List any two advantages of star topology in computer networks. (2)
- (xii) What is the difference between ordered and unordered list? Write HTML statement to display ordered list. (3)

## Section B

2. (a) Explain functions of Transport Layer in the OSI model. (5)  
(b) Identify components of a data communication system. (5)
3. (a) Define TELNET. Illustrate Remote Log-in using TELNET with the help of a diagram. (5)  
(b) What are the advantages of Fiber Optics over Copper as a transmission medium? (5)
4. (a) Create a Registration Form for admission in a college with *Input Type*, *Select* and *Text Area* commands in HTML. (5)  
(b) Create an HTML document containing Roll Number, student's name and Grades in a tabular form. (5)
5. (a) What do you understand by Events in JavaScript? Write any three JavaScript event handlers with brief explanation. (5)  
(b) Write a program that creates an HTML page accepting the name of user. Add a button to the page, on clicking which, the user should be greeted. (5)

- 6 (a) Write a program in JavaScript to read a list of  $n$  numbers and count the number of even numbers in the list. (5)
- (b) Create an HTML form that displays two text boxes and two radio buttons. The first text box accepts a numeric value. Write a JavaScript code such that:
- (i) If the first radio button is checked, the second text box should display the double value of the number entered in the first text box.
  - (ii) If second radio button is checked, the second text box should display the square of the number entered in the first text box. (5)
- 7 (a) Explain logical operators with their syntax in JavaScript. (5)
- (b) Discuss the different ways to apply a style sheet to an HTML document using examples. (5)
8. Write short notes on the followings (**any two**) :
- (a) Radio Waves
  - (b) Real-time Conferencing
  - (c) Bridge
  - (d) Uniform Resource Locator (10)