

Lib 06/12/18 Evening

[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)