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- (ii) FTP
- (iii) Telnet
- (iv) Video Conferencing
- (v) Web server
- (vi) Radio Waves
- (vii) LAN

(1000)

[This question paper contains 8 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 3858

G

Unique Paper Code : 32345302

Name of the Paper : GE – Computer Networks

Name of the Course : **Generic Elective for Hons.
Courses**

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 **four** questions from **Section B**.
4. All parts of a question should be answered together.

P.T.O.

SECTION A

1. (i) Write any two differences between TCP and UDP. (2)
- (ii) Illustrate Geostationary Satellites. (2)
- (iii) Describe search engines. Give two examples. (3)
- (iv) Give an HTML command to the below given tasks. (3)
 - (a) To insert an image into a cell of a table
 - (b) To add the comment "COMPUTER NETWORKS" in an HTML document.
- (v) With the help of a diagram show different parts of coaxial cable? Write one use of coaxial cable. (3)
- (vi) What do you mean by Network Topology? Give two differences between ring and bus topologies? (3)

- (i) Add webpage title "HTML Web Page" and the defined character set
 - (ii) To add an email link to die email address "ge@du.ac.in" in the footer area.
 - (iii) To add an image to die HTML Web Page and make the image link to "http://www.du.ac.in".
 - (iv) An ordered list
 1. Table
 2. Chair
 3. Bed
 - (v) Add a CSS declaration that sets die background color of the header element to white.
7. Write short note on **any five** of the following : (10)
- (i) URL

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5. (a) Write the role of different agents present in the architecture of the e-mail system. (4)
- (b) Create an Examination Form of a College with the following in order (6)
- (i) One textbox for Name.
 - (ii) One textbox for password.
 - (iii) One check box for Complete attendance.
 - (iv) Selection menu containing label Year with options I, II, III
 - (v) Textarea for Comment.
 - (vi) Submit button using input type, select and textarea commands in HTML.
6. Creating a HTML webpage having die following : (10)

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- (vii) For n devices in a network, what is the number of cable links required for star, ring, mesh topologies? (3)
- (viii) Create an HTML document having the following headings Product id, Product name and cost in tabular form. Add two rows. (4)
- (ix) What do you mean by Data Communications? List various components of a data communication system. (4)
- (x) What is CSS? Describe different ways of using CSS in HTML documents with one example each. (4)
- (xi) Give use and full form of below given Application Layer Protocols. (4)
- (a) HTTP
 - (b) SMTP

P.T.O.

SECTION B

2. (a) Describe simplex, half-duplex and full-duplex modes of communication. Give one example of full-duplex communication. (4)
- (b) Differentiate between TCP/IP and OSI network models on the basis of layers and functionalities/services. (6)
3. (a) What is the use of description lists in HTML? Write HTML code to create the below given description list. (4)

Computer

Needs a setup Mobile

Can be carried in pockets Laptop

Can be carried in bags

- (b) What is the role of the following network devices : (6)
- (i) Router
 - (ii) Switch
 - (iii) Bridge
 - (iv) Gateway
 - (v) Repeater
 - (vi) Hub
4. (a) What do you understand about Guided and Unguided transmission media? Describe Fiber-Optic Cable. (6)
- (b) Write the use of a DNS system. Give two examples of sub-domains used by websites. (4)