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[This question paper contains 8 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 1897

C

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. This paper has **two** sections.
3. All questions in **Section A** are compulsory.
4. Attempt any **four** questions from **Section B**.

SECTION A

1. (i) What is meant by the term URL? Can one URL point to two different locations? Justify 3 your answer. (3)

P.T.O.

(ii) Describe the purpose of each of the following layers of OSI model : (3)

(a) Data Link Layer

(b) Transport Layer

(c) Network Layer

(iii) There is a user who is unable to see the image on a web page on the browser. Write syntax of the attribute that can be used to assist the user to get some idea about what the image is?

Give an example of image tag attributes used to :

(a) Specify the image's path

(b) Set the width to 150 pixels (3)

(iv) A college wants to set up a network connection, which should have adequate 3 connections, low

installation cost and fast transmission. The college wants to ensure that there should be a possibility to add new devices in the network. Which topology should be chosen for the connection? Explain your answer. (3)

(v) Write the HTML code to perform the following tasks : (3)

(a) Set the background color as "aqua"

(b) Align a paragraph to the left

(c) Insert a horizontal line between two paragraphs

(vi) Describe the purpose of CSS? Write the code to link your web page to a CSS file. (3)

(vii) In a classroom, there are different communications taking place, based on these identify how it is similar to data flow in a network : (3)

- (a) Student asking question and then teacher answering it
 - (b) Teacher giving instructions to the class monitor
 - (c) Students talking to each other after the teacher leaves the class
- (viii) Illustrate with a suitable example of the use of the Internet and intranet. What is the meaning of the term extranet? (4)
- (ix) Illustrate the use of coaxial and twisted pair cables with suitable examples. (4)
- (x) Give one advantage and one disadvantage of wireless LAN. (2)
- (xi) Parabolic dish antennas are used for microwave communication. What is the purpose of selecting a parabola shaped antenna for the same? (2)

- (xii) Which is the main protocol that enables the use of email service? (2)

SECTION B

2. (a) What do you understand about the term ISP?
What role does an ISP play to provide service to your home's broadband connection? (4)
- (b) Describe the use of point-to-point communication and multi-point communication with suitable examples. (6)
3. (a) Differentiate between star and mesh topologies in networks. (4)
- (b) Complete the following table with appropriate details : (6)

Device	Layer	Purpose
Router		
Hub		
Gateway		

4. (a) How does video conferencing help in teaching-learning activities? Explain any two other applications of the Internet which you use in day to day lives. (6)
- (b) Describe the difference between IP address and MAC address. (4)
5. (a) (i) Write the CSS code to insert the image of the butterfly with name btfly.gif as a background image for a web page. (6)
- (ii) Write a CSS style specification rule that would make all unordered lists have square bullets and a purple background.

(iii) Write HTML code that displays a hyperlink to your school website. The website should open in a new window when the user clicks on the hyperlink.

(b) Describe the remote login process using TELNET with the help of a diagram. (4)

6. (a) Write a HTML code structure to create the following output on the webpage : (7)

Admission Criteria for UG Courses

Eligibility Conditions:

- i) At least 55% in the qualifying examination
- ii) Must have studied the following subjects in class XII:
 - One language
 - 3 stream specific subjects

Please note meeting eligibility condition does not guarantee admission.

Declaration:

☐ I hereby declare I have read and understood the eligibility conditions.

SUBMIT

(b) What is DNS? Give an example of each website which uses '.org' and '.ac.in' domains. (3)

7. Write short notes on the following (**any five**) :

(a) Hyperlinks

(b) Search Engine

(c) Repeaters

(d) HTTP

(e) VoIP

(f) m-commerce

(g) Social Networks (10)