

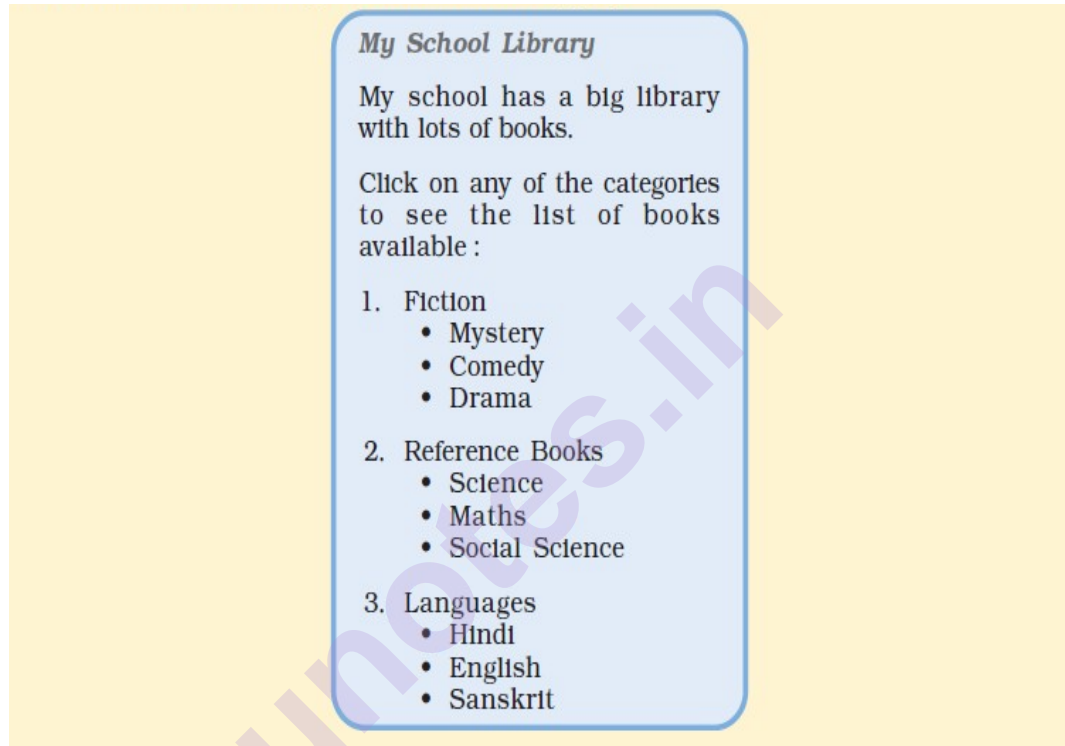
Unique Paper Code : 32345302  
Code of the Paper : GE-III  
Name of the Paper : Computer Networks  
Name of the Course : B.Sc. (H)  
Semester : Semester - III  
Duration of Examination : 3 Hours  
Maximum Marks : 75

**Instructions for Candidates:**

- i. Attempt any four questions from Question 1 to Question 6.
- ii. Each Question carries equal marks.

- Q.1. Briefly describe the functionality of each layer of the ISO-OSI reference model and draw a labeled diagram that shows the ordering of the layers of this model. Contrast the ISO-OSI model with the TCP/IP model.

Further, Create a web page using **Definition, Unordered, and ordered lists** in HTML as shown below:



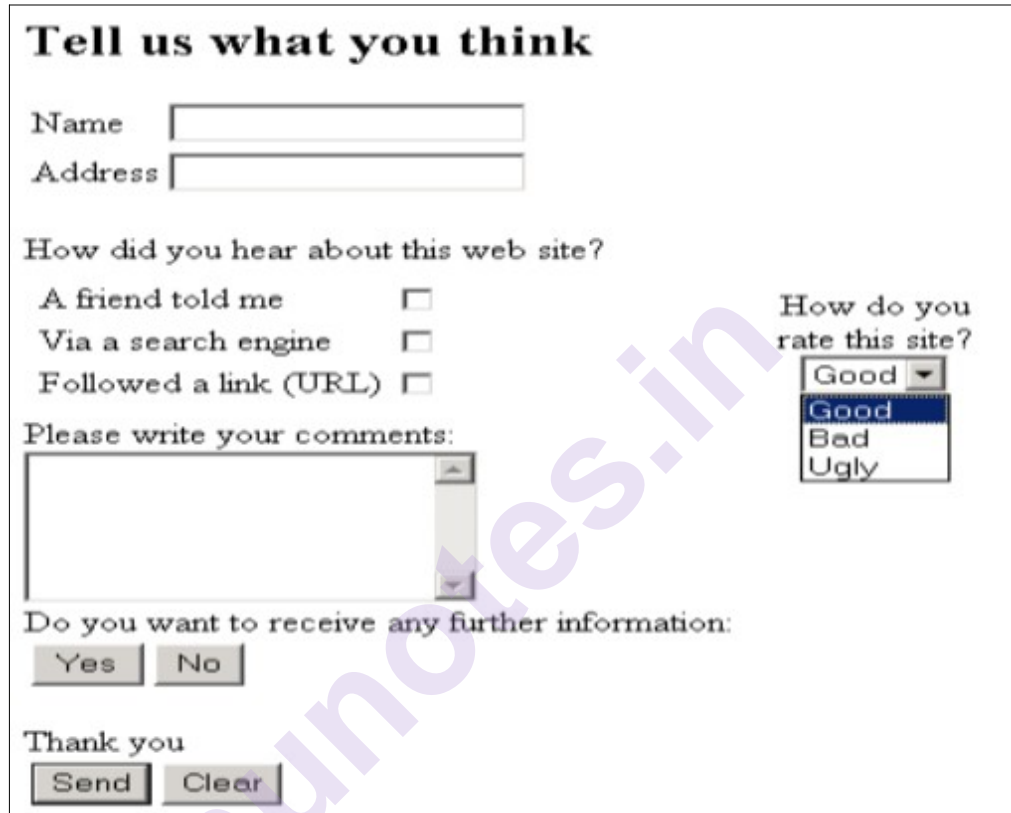
- Q.2. Describe components of a data communication system with the help of a labeled diagram.

Further, differentiate between Cell Spacing and Cell Padding with syntax in **Table Tag**. Create a table in HTML as shown below:

Name		Course	Year
Last	Init.		
Morgan	A B	Fishing	5
Jones	D J	Sailing	8

Q.3. Briefly discuss TELNET and FTP. Compare and Contrast optical fiber over twisted pair and co-axial cable.

Further, create a form in HTML as shown below:



The image shows a screenshot of an HTML form titled "Tell us what you think". The form contains the following elements:

- Title:** "Tell us what you think" in a large, bold, serif font.
- Name:** A text input field with the label "Name" to its left.
- Address:** A text input field with the label "Address" to its left.
- How did you hear about this web site?:** A label followed by three radio button options:
  - "A friend told me" with an unchecked radio button.
  - "Via a search engine" with an unchecked radio button.
  - "Followed a link (URL)" with an unchecked radio button.
- Please write your comments:** A label followed by a large text area with a vertical scrollbar.
- How do you rate this site?:** A label followed by a dropdown menu. The dropdown is open, showing three options: "Good" (selected), "Bad", and "Ugly".
- Do you want to receive any further information:** A label followed by two buttons: "Yes" and "No".
- Thank you** label followed by two buttons: "Send" and "Clear".

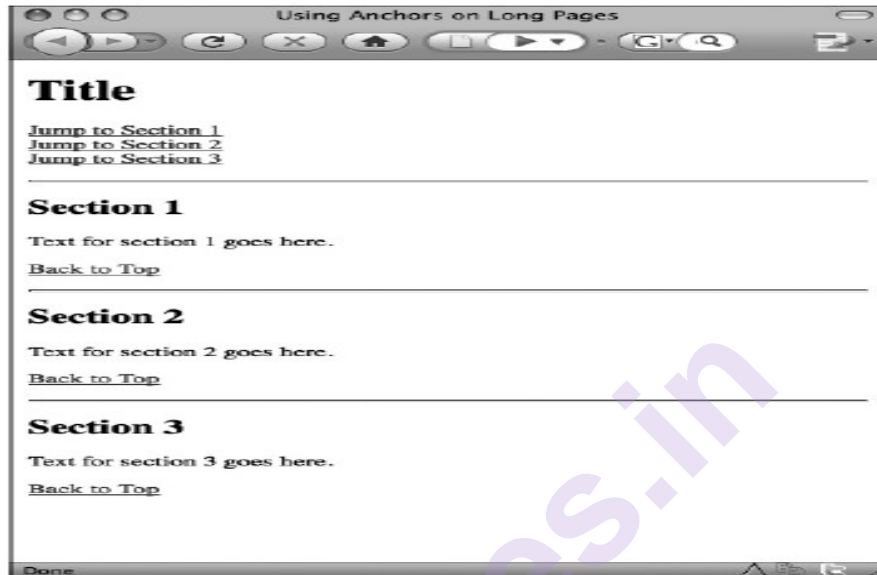
Q.4. Write short notes on:

- Radio Waves
- Microwaves
- Line-of-Sight propagation
- URL
- URI
- URN

Further, explain the concept of external and internal linking in HTML with suitable example codes.

Q.5. Describe LAN, MAN, and WAN.

Also, discuss the different ways to apply a style sheet to an HTML document using examples. Create a web page as shown below with bookmarks in HTML:



Q.6. Provide the layers at which Repeaters, Hubs, Bridges, Switches, Routers, and Gateways operate and give a brief description of their functionalities.

Also, create a HTML document (having two frames) which will appear as follows:

