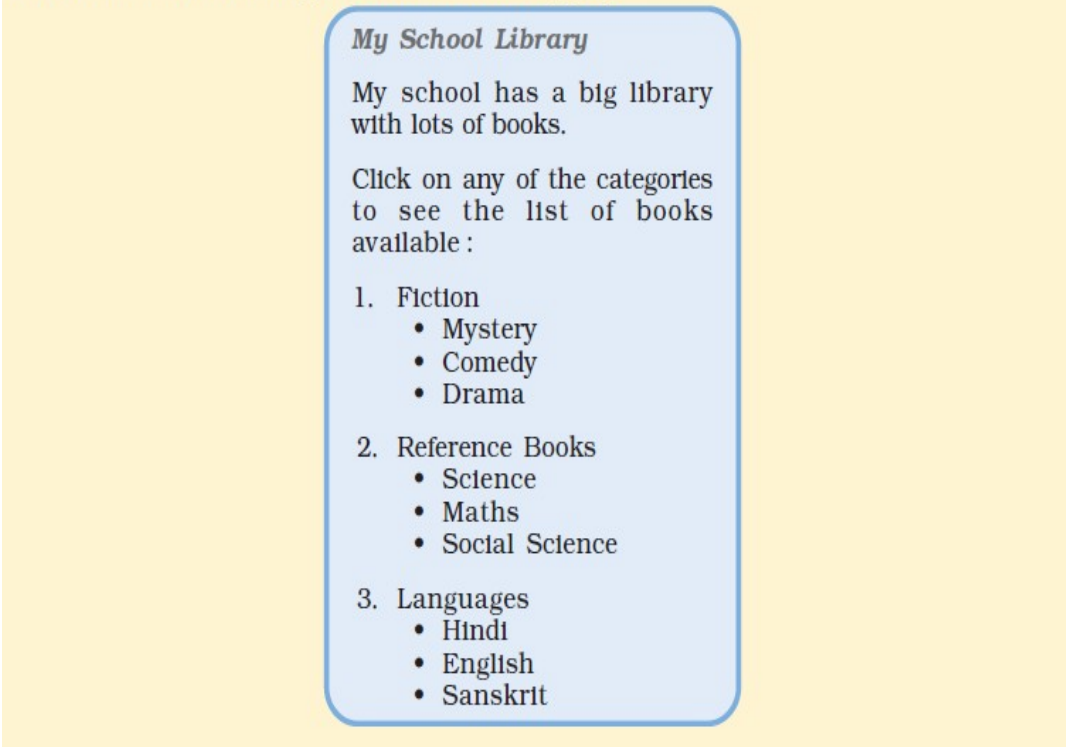
Unique Paper Code	:	**32345302**
Code of the Paper	:	**GE-III**
Name of the Paper	:	**Computer Networks**
Name of the Course	:	**B.Sc. (H)**
Semester	:	**Semester - III**
Duration of Examination	:	**3 Hours**
Maximum Marks	:	**75**

Instructions for Candidates:

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

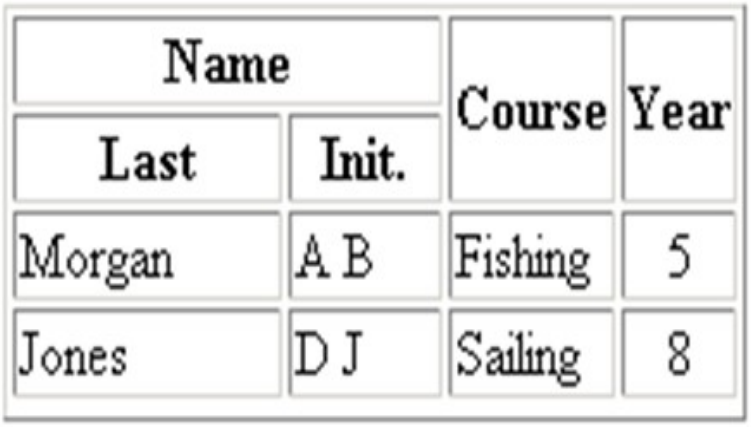
Q.1. Briefly describe the functionality of each layer of the ISO-OSI reference model and draw a labeled diagram that shows the ordering of the layers of this model. Contrast the ISO-OSI model with the TCP/IP model.

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



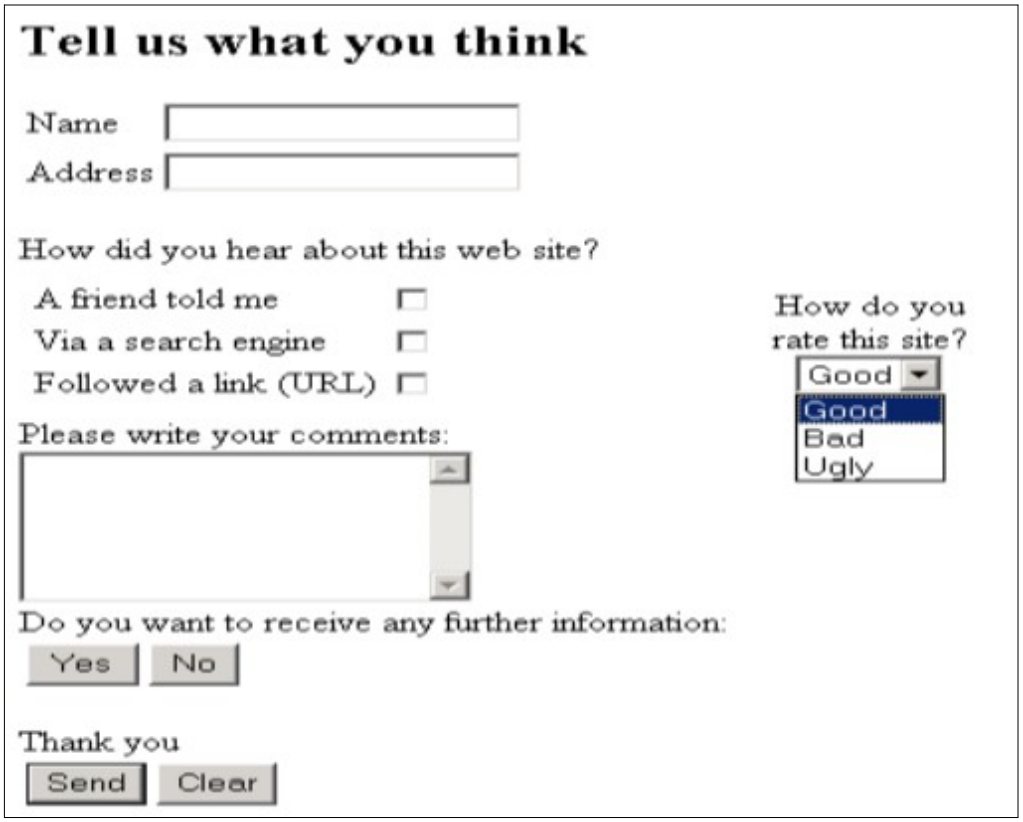
Q.2. Describe components of a data communication system with the help of a labeled diagram.

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



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:



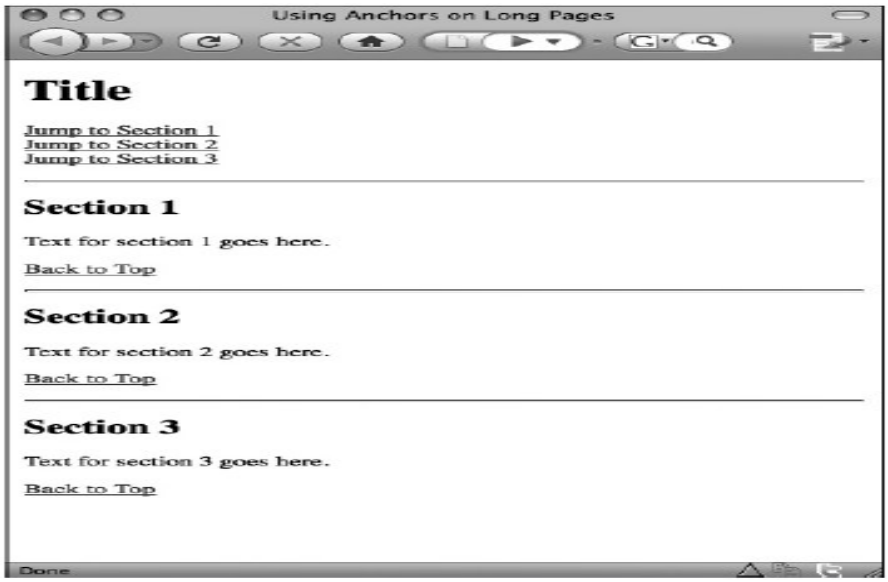
Q.4. Write short notes on:

- 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: