GLS UNIVERSITY
FACULTY OF COMPUTER APPLICATIONS & INFORMATION TECHNOLOGY
SUBJECT: 221601101 Introduction to Information Technology
Integrated MSc(IT) Sem – I
Theory Assignment – IV

Q.1	Fill in the Blanks.
1.	The protocol that the Internet uses for addressing computing devices is called _____.
2.	Hypertext documents on the internet are known as _____.
3.	Webpages are created using a special language called _____.
4.	Any computer on the internet that hosts such as web pages that can be used by other other users is called a _____.
5.	Any computer that accesses a web server to use its resources is called _____.
6.	Software application used by web clients for retrieving, rendering, displaying and traversing web resources on the internet is called _____
7.	_____ is a tool that helps a user to quickly find the desired information from the web.
8.	The next generation of the internet is called _____.
9.	Moving a file from a remote computer to ones own computer is known as _____.
10.	_____ enables an Internet user to send messages to another Internet user in real-time.
11.	HTTP resources on the web are identified and located by _____.
12.	The process of navigating the web to search for useful information is called _____.
13.	Give the example of web browsers :
14.	_____ is the next generation of the Internet.
15.	_____ is a semantic web which refers to thefuture.
16.	_____ is a process of transferring a message from a sender to a receiver.
17.	The maximum amount of data that a communication system can transfer in a given time is known as _____.
18.	_____ refers to the manner in which the nodes of the network are connected together.
19.	In _____ topology every device is connected to a single cable.
20.	_____ device is used for performing modulation and demodulation.
21.	_____ cables are less expensive and easy to install and use.
22.	_____ device increases the power of a signal.
23.	In _____ switching technique a dedicated physical path is established between the sender and the receiver.
24.	_____ cables are used for long distance telephone lines for both voice and data transmission.

25.	_____ cable has hair-thin threads of glass or plastic that can transmit light signals.
26.	_____ communication systems use very high frequency radio signals to transmit data through space.
27.	The bandwidth of a communication system is measured in _____.
Q.2	**True or False.**
1.	TCP allows user to move a file from one computer to another on the Internet.
2.	Email helps to send a message to another Internet user.
3.	Internet telephony uses the Internet for voice communication.
4.	To access any resources on the web, we have to write a URL.
5.	Websearch engine software system allows user to search on www.
6.	Web1.0 is simply an information portal.
7.	In Circuit Switching the whole message is treated as a data unit.
8.	Copper cables transmit electrical signals.
9.	There should be at least three satellites in geosynchronous orbit.
10	Wired communication medium use physical wires.
11.	In Satellite Communication signals travel in a straight line and cannot bend to pass over obstacles like tall buildings.
12.	In Ring Topology exactly there are two neighbours for each device.
13.	TDM is used for transmission of digital data.
14.	In Completely Connected Network n(n-1)/2 communication links needed.
15.	In Packet Switching the destination address, the message number, the sequence number of the current packet, the total number of packets is added to the packet.
16.	A repeater regenerates the signals.
Q.3	**Answer the following Questions:**
1.	Explain services of the internet.
2.	Explain web page and web browsers.
3.	Give the difference between web 1.0 , web 2.0 and web3.0.
4.	Give the difference between intranet and extranet.
5.	Explain enterprise network.
6.	Explain the concept of Usenet Newsgroup.
7.	Discuss the history of Internet.
8.	Writea short note on IRC.
9.	Explain the concept of WebClients and Servers.
10.	Writea short note on WebSearchEngine.
11.	Explain the concept of FTP.
12.	Explain the concept of TCP/IP.

13.	What is E-commerce? Explain types of Commerce.
14.	Discuss advantages and disadvantages of E-commerce.
15.	Write a short note on Communication System.
16.	Explain the concept of Copper Wires. Discuss its types.
17.	Differentiate Wired and Wireless Communication System.
18.	Write a short on Satellite Communication System.
19.	What is topology? Explain all topologies.
20.	Differentiate Microwave Communication System v/s Satellite Communication System.
21.	What is Fibre Optic Cable? Explain its advantages over copper wires.
22.	What is the role of Amplifier in IT network.
23.	Write a short note on Router and repeater
24.	Explain the concept of Modem in detail.
25.	What is Multiplexer? Explain the methods of multiplexing.
26.	What is Network Switch? Exlpain types of switching techniques in detail.
27.	Write a short note on Microwave Communication System.
Q.4	**Give Full Forms of:**
1.	TCP
2.	IP
3.	ARPANET
4.	FTP
5.	WWW
6.	ISP
7.	IRC
8.	URL
9.	FDM
10.	TDM

Note: All the students have to attempt Q-1, Q-2, Q-4 compulsory. Attempt Q-3 in following sequence:

Roll No.	Question No.
1 to 20	1, 4, 7, 10,13
21 to 40	2, 5, 8, 11, 13
41 to 60	3, 6, 9, 12, 14
61 to 80	4, 7, 10, 13, 14
81 to 100	2, 6, 8, 10, 12
101 Onwards	1, 3, 7, 11, 13