ACHARYA INSTITUTE OF TECHNOLOGY,
BENGALURU -560107

ASSIGNMENT - I [Academic Year: 2021-2022]

Sub with Code: CNS-18CS52   **Semester/Section: 5th A and B**

Max Marks: 10   **Last Submission Date: 15/11/2021**

Note: Answer any 6 questions

SL No	Question	CO Mapped
1.	Compare client-server and Peer to peer architecture	CO1
2.	Suppose Alice, with a Web based E-mail account (such as hotmail or Gmail), and sends a message to Bob, who accesses his mail from his mail server using POP3. Discuss how the message gets from Alice's host to Bob's Host. (Be sure to list the series of application layers protocols that are used to move the message between the two hosts.)	CO1
3.	Explain in detail the General format of an HTTP request and response message.	CO1
4.	Explain POP3 and IMAP mail server protocol	CO1
5.	Write a short note on: a) Web Caching b) FTP	CO1
6.	What are the advantages and disadvantages of mesh and circular DTH?	CO1
7.	Discuss the difference between Persistent and non-persistent http connection.	CO1
8.	Describe in detail the services provided by DNS and its hierarchy.	CO1

9.	Consider an e-commerce site that wants to keep a purchase record for each of its customers. Describe how this can be done with cookies	CO1
10.	Illustrate how P2P architecture can be adopted in file sharing application like Bit Torrents.	CO1
11.	With the help of FSM, Describe the sender side and receiver side of rdt 2.0	CO2
12.	Describe the various fields of UDP segments and also explain about checksum with an example.	CO2
13.	Explain the operation of Go-Back-N protocol with an example.	CO2