

B.SC. INFORMATION TECHNOLOGY

FIFTH SEMESTER (2020-21) ASSIGNMENT -3&4(combined)

Data Communication & Network

Time Durations: 2 Days.

Date: 18/02/2021

Total Marks: 30

Note: All questions carry equal marks. All questions are short answer type. You have to submit this assignment after two day including today.

Q1) Discusses carrier sense multiple access protocol. What is the difference between CSMA-CD and CSMA-CA?

Q2) what is Routing? What are the different types of routing protocols? What are the Difference between Distance vector and Link state routing protocols

Q3) what is the congestion in network? How many types of Congestion Control Protocols.

Q4) what is Aloha Protocol and its types? Discuss the sliding window protocols.

Q5) what is Internet Protocol (IP address)? What are the different types of Classes used in Ip address? Also discuss the difference between of IPv4 and IPv6

Q6) Differentiate between connection less and connection oriented communication network. What is ISO-OSI reference model?

Q7) write a short Note on –

A. FTP

B. DNS

C. SNMP

D. Email

E. HTTP

F. ATM

G. TCP/UDP

H. FDDI.

Q8) what is data link Layer and its Sublayer.

Q9) what are the design Issue in Transport layer protocol.

Q10) what do you understand by Network security? What are the compression technique used in data communication?