



R18 Regulation

Subject code: 206DD

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A' Grade)

B.Tech VI Semester Regular Examinations, June 2022

COMPUTER NETWORKS

(Open Elective)

(Electronics and Communication Engineering)

Maximum Marks: 70

Date:22.06.2022 Duration: 3 hours

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 What are the types of networks?
- 2 Write some examples of asynchronous communication?
- 3 Define HDLC.
- 4 Write short notes on CRC.
- 5 What are the different kinds of Multicast Routing?
- 6 How does a router differ from a bridge?
- 7 How transport layer performs Duplication control?
- 8 What are the functions of transport layers?
- 9 What are the two parts of addressing system in SMTP?
- 10 What are the three main components of the DNS?

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 Discuss various types of networks topologies in computer network. (10)
OR
- 12 Explain the layers of TCP/IP reference model. (10)
- 13 Explain about the data Link Layer switching. (10)
OR
- 14 A) Discuss the MAC layer functions of IEEE 802.11. (8)
B) What are the types of bridges. (2)
- 15 Explain shortest path algorithm with a suitable illustration. (10)
OR
- 16 Explain the distance vector routing algorithm. (10)
- 17 Explain the duties of transport layer. Write short notes on performance issues of transport layer. (10)
OR
- 18 A) Discuss on TCP connection management. (5)
B) Write short notes on User Datagram Protocol (UDP). (5)
- 19 Write short notes on IMAP and MIME with an example. (10)
OR
- 20 Discuss how simple mail transfer protocol (SMTP) works? Can multimedia messages be transmitted using SMTP? Discuss. (10)