



Regulation R18

Subject code: 2P5FB.

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, January 2023

COMPUTER NETWORKS

Information Technology

09-01-2023

Maximum Marks: 70

Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 List various components in a network?
- 2 Write the advantages of Optical fiber over Coaxial cable?
- 3 Define Bit stuffing?
- 4 Explain how throughput is improved in Slotted Aloha over Pure Aloha?
- 5 What is the difference between physical and logical addressing.
- 6 List different types of links in OSPF?
- 7 Differentiate connectionless and connection-oriented service?
- 8 Define choke packet?
- 9 List out the various security attacks.
- 10 Define Zigbee?

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 a) Write any four reasons for using layered protocols.
b) Explain the functionality of each layer in OSI reference model. [5+5]
OR
- 12 Explain the Datagram Networks and Virtual Circuit Networks. [10]
- 13 a) Explain sliding window protocol.
b) Describe go back N protocol. [5+5]
OR
- 14 What is the purpose of CSMA CD? And explain it. [10]
- 15 With an example explain shortest path routing? [10]
OR
- 16 How would you describe the operation of Address resolution protocol? [10]
- 17 How would you summarize the concepts of E-mail, its architecture and services? [10]
OR
- 18 Write briefly about Congestion control in datagram subnets. [10]
- 19 Explain the Security services mechanisms and attacks. [10]
OR
- 20 Explain about datagram of IPV4? [10]

