



Regulation R18

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A' Grade)

Subject code: 2PSFB

B.Tech V Semester Supplementary Examinations, June/July 2023
Computer Networks

Information Technology

Maximum Marks: 70

Date: 26.06.2023 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

- 1 List and define different network topologies? (10x2M=20 Marks)
- 2 What is Frame Relay?
- 3 Differentiate between VRC and LRC?
- 4 What is meant by Noisy channels?
- 5 List out advantages of IPV6 over IPV4?
- 6 List query messages in ICMP?
- 7 What are the uses of UDP?
- 8 How the data flow is done in Traffic descriptor?
- 9 Explain about Http Transaction between client and server?
- 10 Design architecture of WWW?

Part-B

Answer All the following questions.

- 11 Explain the TCP/IP protocol suit in detail, with their protocols? (10M X 5=50Marks)
10
- 12 Explain about Circuit Switched networks?
10
- 13 a) Compare and Contrast between Aloha and Slotted Aloha?
b) Explain about IEEE standard?
10
- 14 Evaluate CRC if the message is x^7+x^5+1 and generator polynomial is x^3+1 ?
10
- 15 Briefly explain path vector Routing?
10
- 16 Explain briefly about Connecting Devices?
10
- 17 a) Explain about User Datagram format?
b) Explain about TCP Features?
5
5
- 18 Explain in detail about TCP segment header and connection establishment?
10
- 19 Explain about Security attacks and Security Mechanisms?
10
- 20 Define IP security (IPsec) and explain operation modes, and other protocols used in the IPsec.
10