



R20 Regulation

Subject code:3P5FD

**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY**

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

**B.Tech V Semester Supplementary Examinations, May 2025**

**COMPUTER NETWORKS**

(IT)

Maximum Marks: 70

Date: 23.06.2025

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)		Marks	CO	BTL
1	Write the advantages of Optical fiber?	2M	1	L1
2	Describe why are standard needed?	2M	1	L1
3	List Random access protocols?	2M	2	L1
4	Define Character stuffing?	2M	2	L1
5	List out advantages of IPV6 over IPV4?	2M	3	L1
6	What is classfull addressing?	2M	3	L1
7	Differentiate connectionless and connection-oriented service?	2M	4	L1
8	Explain about functions of Transport Layer?	2M	4	L1
9	List security goals?	2M	5	L1
10	List Security Mechanisms?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Write short notes on a) Tree Topology b) Star Topology c) Mesh Topology	10M	1	L2
OR				
12	Explain about the Circuit switched network.	10M	1	L2
13	Explain about variable size framing.	10M	2	L2
OR				
14	Explain in detail about Slotted ALOHA.	10M	2	L2
15	Explain about IGMP.	10M	3	L2
OR				
16	Explain in detail about IPv6.	10M	3	L2
17	Explain about TCP connection.	10M	4	L2
OR				
18	Explain about QoS in switched networks.	10M	4	L2
19	Explain about Firewall.	10M	5	L2
OR				
20	Explain about File Transfer protocol.	10M	5	L2