



R20 Regulation

Subject code:3P5EC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, November 2025

COMPUTER NETWORKS

(CSE)

Maximum Marks: 70

Date: 22.11.2025

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	What are the features provided by layering?	2M	1	L1
2	What is LAN?	2M	1	L1
3	What are the responsibilities of data link layer?	2M	2	L1
4	What is byte stuffing?	2M	2	L1
5	What is bridge?	2M	3	L1
6	Define ICMP.	2M	3	L1
7	What is de-multiplexing?	2M	4	L1
8	What are the advantages of using TCP over UDP?	2M	4	L1
9	What are the two types of connections in FTP?	2M	5	L1
10	What are the basic functions of email?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Explain about topologies in detail.	10M	1	L2
	OR			
12	Explain the components & dataflow directions.	10M	1	L2
13	Write in detail about error detection & correction techniques.	10M	2	L2
	OR			
14	Explain about ALOHA in detail.	10M	2	L2
15	Define routing & explain shortest path routing using Dijkstra's algorithm with example.	10M	3	L2
	OR			
16	Write short notes about repeaters, routers and gateways?	10M	3	L2
17	Explain about process to process to delivery in detail.	10M	4	L2
	OR			
18	Explain in detail about QOS in switched networks.	10M	4	L2
19	Explain about the protocols associated with the electronic mail system.	10M	5	L2
	OR			
20	Describe about the HTTP in detail.	10M	5	L2