



R20 Regulation

Subject code: 3P5FD

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, November 2025

COMPUTER NETWORKS

(IT)

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 is meant by protocol?	2M	1	L1
2	What do you mean by logical addresses?	2M	1	L1
3	Distinguish between Flow control and Error Control.	2M	2	L1
4	What is meant by Noisy channels?	2M	2	L1
5	Write binary and dotted decimal notation in IPv4?	2M	3	L1
6	Explain about repeaters and bridges?	2M	3	L1
7	Differentiate connectionless and connection-oriented service?	2M	4	L1
8	Write about functions of Transport Layer?	2M	4	L1
9	Write about HTTP?	2M	5	L1
10	Explain about Electronic mail?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	With a neat diagram explain the OSI Layer in detail.	10M	1	L2
OR				
12	What is Multiplexing? Explain in detail about Various types of Multiplexing.	10M	1	L2
13	Explain about Go Back N ARQ protocol.	10M	2	L2
OR				
14	Illustrate CSMA/CD with neat diagram.	10M	2	L2
15	Briefly explain Distance vector Routing algorithm.	10M	3	L2
OR				
16	Briefly explain network layer and its responsibilities.	10M	3	L2
17	a) Explain about TCP Services. b) Explain about congestion control in TCP.	5M 5M	4	L2
OR				
18	Explain about QoS in switched networks.	10M	4	L2
19	Explain about Firewall.	10M	5	L2
OR				
20	Explain the Architecture of WWW in detail.	10M	5	L2