R20 Regulation *Subject code: 3O7DA*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, October 2026

COMPUTER NETWORKS

(ECE)

Maximum Marks: 70 Date: 30.10.2026 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	Define Network.	2M	1	L1
2	What are Network models?	2M	1	L1
3	What is protocol?	2M	2	L1
4	What is piggybacking?	2M	2	L1
5	What is internetworking?	2M	3	L1
6	What is meant by congestion?	2M	3	L1
7	What is UDP?	2M	4	L1
8	Mention Elements of transport protocol.	2M	4	L1
9	What is SNMP?	2M	5	L1
10	What is the TCP protocols?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Differentiate between TCP/IP network model and ISO-OSI reference model.	10M	1	L2
	OR			
12	Explain about various transmission media in physical layer with a neat sketch.	10M	1	L2
13	Explain about wireless LAN.	10M	2	L2
	OR			
14	Explain in detail about ALOHA.	10M	2	L2
15	Explain the shortest-path routing algorithm.	10M	3	L2
	OR			
16	Explain briefly about Congestion control algorithms.	10M	3	L2
17	Compare and contrast TCP and UDP Protocols.	10M	4	L2
	OR			
18	Explain the elements of transport layer.	10M	4	L2
19	Explain about HTTP in detail.	10M	5	L2
	OR			
20	What is electronic mail? Explain about the protocols associated with the electronic mail system.	10M	5	L2