



R20 Regulation

Subject code: 307DA

# TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, November 2025

## COMPUTER NETWORKS

(ECE)

Maximum Marks: 70

Date: 28.11.2025

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 wireless transmission?	2M	1	L1
2	What is OSI?	2M	1	L1
3	What is error correction?	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	Mention Elements of transport protocol.	2M	4	L1
8	Write any two differences between TCP & UDP.	2M	4	L1
9	What is SMTP?	2M	5	L1
10	What is DNS?	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 data link layer and its framing concept.	10M	2	L2
OR				
14	Explain in detail about ALOHA.	10M	2	L2
15	Define routing & explain distance vector routing and link state routing.	10M	3	L2
OR				
16	Explain about logical addressing in detail.	10M	3	L2
17	Explain about Elements of Transport protocols and connection management.	10M	4	L2
OR				

18	Explain about a)UDP                      b)TCP	5M 5M	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