

R28 Regulation

Subject code:307DA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, May 2025

COMPUTER NETWORKS

(ECE)

Maximum Marks: 70

Date: 31.05.2025

Duration: 3 hours

- Notes:**
1. This question paper consists 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 8 units. Answer any two full questions from each unit.
 4. Each section carries 10 marks and has three a, b, c, if as sub sections.

Part-A

All the following questions carry equal marks

(10X2M=20 Marks)

Marks	CO	BTL
2M	1	L1
2M	1	L1
2M	2	L1
2M	2	L1
2M	3	L1
2M	3	L1
2M	4	L1
2M	4	L1
2M	3	L1
2M	5	L1

- 1 What is ARPANET?
- 2 What are the features provided by IPv6?
- 3 List advantages of sliding window protocol.
- 4 Define checksum.
- 5 What is the use of router?
- 6 What is shortest path routing?
- 7 Mention Elements of transport protocol.
- 8 Write an two differences between TCP & UDP.
- 9 What are the functions of Application layer?
- 10 What is the domain name system and its possible for?

Part-B

Answer All the following questions.

(5X10M=50Marks)

Marks	CO	BTL
10M	1	L2
10M	1	L2
3M	2	L2
5M		
10M	2	
10M	3	
10M	3	
10M	4	

- 11 Differentiate between TCP/IP network model and ISO-OSI reference model.
- OR
- 12 Explain about various transmission media in physical layer with a neat sketch.
- 13
 - a) Explain about Hamming code with an example.
 - b) Write in detail about error correction.
- OR
- 14 Explain in detail about ALOHA.
- 15 Explain the shortest-path routing algorithm.
- OR
- 16 Explain briefly about Congestion control algorithms.
- 17 Explain about data traffic in detail.

OR

18	Write short notes on A. Congestion B. Congestion control	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