



R18 Regulation

Subject code: 207DA

**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY**

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

**B.Tech VII Semester Supplementary Examinations, November 2022**

**COMPUTER NETWORKS**

**(Open Elective)**

**(ECE)**

**Maximum Marks: 70**

3/12/2022 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)

- 1 What are the features provided by layering?
- 2 What is LAN?
- 3 What are the responsibilities of data link layer?
- 4 Define checksum.
- 5 Define router.
- 6 What do you mean by ARP?
- 7 Define congestion.
- 8 List the flag used in TCP header.
- 9 What is SMTP?
- 10 What is the domain name system responsible for?

**Part-B**

Answer All the following questions.

(5X10M=50Marks)

- 11 Explain: A) Frame Relay B) ATM C) ISDN [3+3+4]

OR

- 12 Explain in detail about ISO /OSI model. [10]

- 13 Discuss the hamming code with an example. [10]

OR

- 14 Write in detail about flow and error control mechanism. [10]

- 15 Explain: A. ICM B. IGMP [5+5]

OR

- 16 Explain about forwarding techniques. [10]

17 Explain in detail about TCP and UDP protocols. [10]

OR

18 Write short notes on: [5+5]

A. Congestion

B. Congestion control algorithms

19 What is electronic mail? Explain about the protocols associated with the electronic mail system. [10]

OR

20 Explain about the http. [10]