



**R20 Regulation**  
**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY**  
(Autonomous, Accredited by NAAC with 'A+' Grade)

**Subject code: 307DA**

**B.Tech VII Semester Supplementary Examinations, April 2024**

**COMPUTER NETWORKS**  
**(ECE)**

**Maximum Marks: 70**

**Date: 23.04.2024 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 is wireless transmission?
- 2 What is OSI?
- 3 What is error correction?
- 4 Define HDLC.
- 5 What is the use of router?
- 6 What is shortest path routing?
- 7 What is UDP?
- 8 Mention Elements of transport protocol
- 9 What is SNMP?
- 10 What is the responsibility of Domain Name System?

**Part-B**

Answer All the following questions.

(5X10M=50Marks)

- 11 Explain different types of topologies in detail with neat sketches. (10M)

OR

- 12 Explain in detail about TCP/IP Reference model. (10M)
- 13 Explain about wireless LAN. (10M)

OR

- 14 Explain in detail about ALOHA. (10M)
- 15 Define routing. Explain distance vector routing and link state routing. (10M)

OR

16 Explain the shortest-path routing algorithm. (10M)

17 Explain about Elements of Transport protocols and connection management. (10M)

OR

18 Explain: a) UDP (5M)      b)TCP (10M)

19 Explain about HTTP in detail. (10M)

OR

20 Explain about File Transfer Protocol. (10M)