



R18 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

Subject code: 2P5EB

B.Tech V Semester Regular Examinations, February 2021

Computer Networks
(Computer Science and Engineering)

Maximum Marks: 70

Date: 19.02.2021 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 Compare bus and ring topology and list the types of topology.
- 2 State the type of transmission modes
- 3 Write about CSMA
- 4 What is ALOHA?
- 5 Define term tunneling.
- 6 Define IP address and list the IP address classes.
- 7 Give the difference between TCP and UDP.
- 8 Explain AAL Layer Protocol.
- 9 Elaborate the functioning of HTTP.
- 10 Define DNS.

Part-B

Answer All the following questions.

(10M X 5=50Marks)

- 11 Explain TCP/IP model with neat diagram. (10M)
OR
- 12 A. List the seven layers in OSI model and explain the function of presentation layer. (5M)
B. Write short notes on virtual circuit network. (5M)
- 13 A. Explain ALOHA in detail. (5M)
B. Write short notes on various Error correction methods and CRC generator and checker. (5M)
OR
- 14 Explain, Compare and Contrast in detail about Stop and Wait with Sliding window protocols. (10M)
- 15 Explain in detail about Routing and give example for various types of Routing. (10M)
OR
- 16 Elaborate about functioning of network layer in Internet and in ATM Networks. (10M)

- 17 Explain about UDP and TCP. (10M)
- OR
- 18 Explain in detail about QoS and QS in switch network. (10M)
- 19 Explain in detail about SMTP, MIME and POP3. (10M)
- OR
- 20 Explain about HTTP and WWW. (10M)