



R17 Regulation

Subject code: 1P5EA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech III Year I Semester Supplementary Examinations, December 2021

COMPUTER NETWORKS

(Computer Science and Engineering)

Maximum Marks: 70

Date: 23.12.2021 Duration: 3 hours

23-12-2021
A/N

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 What are the advantages and draw backs of mesh topology?
- 2 What are the Modes of Optical Fiber?
- 3 Define single-bit error and burst error?
- 4 Define the term Flow control.
- 5 What is the difference between port number and IP address?
- 6 Define Tunneling.
- 7 What are the responsibilities of Transport Layer?
- 8 Draw TCP and UDP header format.
- 9 Compare HTTP and FTP
- 10 What is the significance of DNS?

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 Illustrate neat diagram of ISO/OSI model and explain.
OR
[10]
- 12 A) With neat sketch explain Circuit switching in detail
B) Explain the differences between switching methods.
[5+5]
- 13 Explain the following ARQ techniques in detail
i) Stop and wait ARQ.
ii) Selective repeat ARQ.
OR
[10]
- 14 A) Describe about the controlled access?
B) Give a detail note on hamming code.
[5+5]
- 15 Draw and explain each field in the IPV4 datagram format
OR
[10]
- 16 How ICMP and IGMP differ from each other? In which layer do these protocols works.
[10]
- 17 A) Discuss different factors affecting congestion control algorithms.
B) discuss the QoS network related attributes in Frame relay.
[5+5]
- 18 A) Compare UDP and TCP in brief.
B) Illustrate the TCP connections.
OR
[5+5]

19 What is DNS? Differentiate between recursive and iterative queries. Explain the formats of the query and response messages used in DNS [10]

OR

20 Describe various parts of E-Mail address and show the process of sending and receiving e-mails. [10]