R18 Regulation *Subject Code: 2O6DD*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, February 2024

COMPUTER NETWORKS

(ECE)

Maximum Marks: 70 Date:24.02.2024 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)	CO	Bloom Tx
1	What are the advantages and draw backs of mesh topology?	CO1	L1
2	What are the Modes of Optical Fiber?	CO1	L1
3	Define single-bit error and burst error?	CO2	L1
4	Explain the term Flow control	CO2	L1
5	What is the difference between port number and IP address?	CO3	L1
6	Discuss in brief about DHCP	CO3	L1
7	What are the responsibilities of Transport Layer?	CO4	L1
8	Draw TCP and UDP header format.	CO4	L1
9	Compare HTTP and FTP	CO5	L2
10	What is the significance of DNS?	CO5	L1

Part-B

	Answer All the following questions. **(10M X 5=50Marks)**		
11	Illustrate neat diagram of ISO/OSI model and explain. [10]	CO1	L2
	OR		
12	A) Explain Circuit switching in detail with diagram. [5] B) Explain the differences between switching methods. [5]	CO1	L5
13	Discuss protocols of data link layer. [10]	CO2	L5
	OR		
14	Explain the CRC error detection technique using generator polynomial x^4+x^3+1 and data 11100011 [10]	CO2	L5
15	Draw and explain each field in the IPV4 datagram format. [10]	CO3	L5
	OR		
16	How ICMP and IGMP differ from each other? In which layer do these protocols works. [10]	CO3	L4
17	Discuss different factors affecting congestion control algorithms. [10]	CO4	L5
	OR		
18	Explain Transmission Control protocol in brief. [10]	CO4	L5

19	What is DNS? Differentiate between recursive and iterative queries. Explain the formats of the query and response messages used in DNS. [10]	CO5	L4
	OR		
20	Describe various parts of E-Mail address and show the process of sending and receiving e-mails. [10]	CO5	L4