R20 Regulation *Subject code:3P5FD*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, December 2024

Computer Networks
(IT)

Maximum Marks: 70 Date:31.12.2024 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 which carries 10M.
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	List various components in a network.	1	L1
2	Write the advantages of Optical fiber?	1	L1
3	Define Bit stuffing.	2	L1
4	Define Character stuffing.	2	L1
5	List out advantages of IPV6.	3	L1
6	List query messages in ICMP.	3	L1
7	Write about Traffic profiles in Data Traffic?	4	L1
8	Write about Differentiated services?	4	L1
9	Write the properties of File Transfer protocol?	5	L1
10	What are Generic Domains?	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	What is Multiplexing? Explain in detail about Various types of Multiplexing. [10M]	1	L2
	OR		
12	With a neat diagram explain the OSI reference model in detail? Explain the functions performed in each layer? [10M]	1	L2
13	A) Compare and Contrast between Aloha and Slotted Aloha? [5M] B) Explain about IEEE standard? [5M]	2	L2
	OR		
14	Evaluate CRC if the message is x^7+x^5+1 and generator polynomial is x^3+1? [10M]	2	L2
15	Explain about ICMP? [10M]	3	L2
	OR		
16	A) Compare and contrast between IPV4 and IPV6? [5M] B) Discuss about Border Gateway Protocol. [5M]	3	L2

17	A) Explain about TCP Services. B) Explain about Flow and Error Control in TCP.	[5M] [5M]	4	L2
	OR			
18	Explain about QoS in switched networks.	[10M]	4	L2
19	Explain about mechanisms and attacks in security.	[10M]	5	L2
	OR			
20	Explain about SNMP.	[10M]	5	L2