



R20 Regulation **Subject code: 305BB**
TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
 (Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech V Semester Supplementary Examinations, July 2024

Computer Networks

(EEE)

Maximum Marks: 70

Date: 01.08.2024 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		CO	Bloom Tx
All the following questions carry equal marks (10X2M=20 Marks)			
1.	Why are protocols needed?	CO1	I
2.	What is transmission media? Give example.	CO1	I
3.	State the functions of bridges.	CO2	I
4.	Find the Hamming distance between two pair of code words : A = 01011 B = 11110	CO2	II
5.	Compare Adaptive routing and Non-adaptive routing.	CO3	II
6.	How will the routers get the information about neighbour?	CO3	I
7.	How congestion occurs in a network?	CO4	II
8.	What are the fields in the header of UDP?	CO4	I
9.	List the difference between IMAP and POP.	CO5	II
10.	Write down the three types of WWW documents.	CO5	I
Part-B			
Answer All the following questions. (5X10M=50Marks)			
11.	With a neat sketch, explain the functions of OSI network architecture. [10]	CO1	II
OR			
12.	Analyse the different types of switching networks and mention its Advantages and demerits. [10]	CO1	III
13.	Discuss any two-error detection mechanism in detail. [10]	CO2	II
OR			
14.	Explain the functions of MAC layer present in IEEE 802.11 with necessary diagrams. [10]	CO2	II
15.	Describe Distance Vector routing algorithm. Analyse its limitations compared to other algorithms. [10]	CO3	III
OR			
16.	Explain shortest path algorithm. [10]	CO3	IV
17.	Explain AAL layer protocol with neat diagram. [10]	CO4	V
OR			

18	Explore the fundamental concepts behind TCP and how it is used to transport data between two endpoints. Explain the three-way handshaking method in detail. [10]	CO4	III
19	Discuss about IP address to host name mapping techniques? In organization need to transfer huge data to webserver and need to maintain their own mail accounts? Discuss in which protocols will support and explain the importance of HTTP. [10]	CO5	IV
OR			
20	List the elements of network management and explain the operation of SNMP protocol in detail. [10]	CO5	III