PRN:		Course Code :	AMT1405

Second Year **B. Tech AIML** End Semester Examination Summer 2023

Computer Networks

Day and Date: Thursday, 22/06/23 Max Marks: **100**

Time : 2:00 to 5:00 pm Duration: **03** hrs

Instructions: All questions are compulsory. Draw diagrams wherever necessary.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Define multiplexing and explain types of multiplexing with the help of diagram.	08	L1	CC1
	b)	Summarize data communication along with its component and communication channels.	08	L2	CC1
		OR			
	b)	Illustrate the concept of data transmission in detail with the help of neat diagram.	08	L3	CC1
Q.2		**Attempt the following**			
	a)	Classify wireless LAN along with its components, types and its advantages and disadvantages.	08	L4	CC2
	b)	Solve a 7 bit Hamming Code is received as 1101101.Assume even parity and state whether received code is correct or wrong, if wrong locate bit in error.	08	L3	CC2
		OR			
	b)	State the working of token ring in short. And distinguish between token ring and token bus.	08	L2	CC2
Q.3		**Attempt any two from the following**			
	a)	Explain the switching techniques in detail with the help of diagram.	08	L2	CC2
	b)	Describe the working of DHCP with its components and benefits.	08	L2	CC2
	c)	Summarize working of RIP protocol in detail with the help of diagram.	08	L2	CC2
Q.4		**Attempt any two from the following**			
	a)	What is IPV4? Write the following terms with respect to IPV4: 1) Parts 2) Advantages 3) Limitations	08	L1	CO3
	b)	Convert the following IP addresses from binary notation to dotted-decimal notation. a) 01111111 11110000 01100111 01111101 b) 10101111 11000000 11111000 00011101	08	L2	CO3
	c)	Define congestion. State the working of token bucket with the help of neat diagram.	08	L1	CO3
Q.5		**Attempt any Two of the following**			
	a)	Explain working of UDP in detail with characteristics and applications.	09	L2	CO4
	b)	Classify features, advantages and disadvantages of TCP.	09	L4	CO4

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	c)	Describe congestion control in detail with the help of diagram.	09	L3	CO4
Q.6		**Attempt any Two of the following**	09	L1	CO5
	a)	What is DNS? How it works.	09	L3	CO5
	b)	Illustrate Web(WWW) with the help of diagram, features and components	09	L2	CO5
	c)	Explain network architecture layers in detail with the help of diagram.			

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