PRN:		Course Code :	UCA103

First Year **BCA** End Semester Examination Summer 2024

Data Communications

Day and Date: 30 MAY 2024, Thu Max Marks: **100**

Time : 02:00PM To 05:00PM Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Explain different data representation techniques.	08	L2	CO1
	b)	Illustrate optical fiber cable and coaxial cable with diagram.	08	L3	CO1
		OR			
	b)	Discuss LAN,MAN,WAN.	08	L2	CO1
Q.2		**Attempt the following**			
	a)	Explain mesh topology and star topology with advantages and disadvantages.	08	L2	CO1
	b)	Explain in brief OSI model with its layer.	08	L2	CO1
		OR			
	b)	Illustrate TCP/IP protocol suite.	08	L3	CO2
Q.3		**Attempt any two from the following**			
	a)	Explain pure ALOHA and slotted ALOHA.	08	L2	CO2
	b)	Explain CSMA with flowchart and neat diagram.	08	L2	CO2
	c)	Explain CSMA/CD with flowchart and neat diagram.	08	L2	CO2
Q.4		**Attempt any two from the following**			
	a)	Describe IPv6 header format.	08	L1	CO3
	b)	Explain with neat diagram IPv4 header format.	08	L2	CO3
	c)	Explain the concept of Fragmentation.	08	L2	CO3
Q.5		**Attempt any Two of the following**			
	a)	Explain the architecture of the WWW.	09	L2	CO3
	b)	Explain static document.	09	L2	CO4
	c)	Describe HTTP in detail with neat diagram.	09	L1	CO4
Q.6		**Attempt any Two of the following**			
	a)	Illustrate Bluetooth picante and scatter net.	09	L3	CO4
	b)	Explain packet switching techniques.	09	L2	CO4
	c)	Explain circuit switching mechanism.	09	L2	CO4

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