PRN:		Course Code :	MCA201

Second Year **M.C.A.** End Semester Examination Winter 2022

Computer Network and Security

Day and Date: Monday, 12/12/2022, Monday Max Marks: **100**

Time : 10.30 pm to 1.30 pm Duration: **03** hrs

Instructions: All questions are compulsory.

Q.1		**Attempt the following**		**Marks**	**Bloom's Level**	**CO**
	a)	Explain concept of framing and various methods of framing		08	L5	CO1
	b)	Distinguish between token ring And Ethernet		08	L4	CO1
		OR				
	b)	Explain bus and mesh topology in detail		08	L2	CO1
Q.2		**Attempt the following**				
	a)	Make a use of internet protocol.		08	L3	CO2
	b)	Distinguish between circuit switching and packet switching		08	L4	CO2
		OR				
	b)	List out the advantages and disadvantages of Circuit Switching.		08	L4	CO2
Q.3		**Attempt any two from the following**				
	a)	Discuss the the features of TCP/IP		08	L6	CO2
	b)	Explain the Application Layer with neat diagram.		08	L2	CO3
	c)	Explain Domain Name System(DNS) and Multipurpose Internet Mail Extensions (MIME)		08	L2	CO3
Q.4		**Attempt any two from the following**				
	a)	State and explain Symmetric Cipher.		08	L2	CO4
	b)	Illustrate the concept of Substitution Technique in Cryptography. Explain any two types.		08	L2	CO4
	c)	Distinguish between Block Cipher and Stream Cipher.		08	L4	CO4
Q.5		**Attempt any Two of the following**				
	a)	Distinguish between block cipher and stream cipher		09	L4	CO4
	b)	Evaluate term confidentiality		09	L5	CO4
	c)	Discuss in detail the structure of DES		09	L6	CO4
Q.6		**Attempt any Two of the following**				
	a)	Analyze authentication function in detail		09	L4	CO5
	b)	Explain Public – Key Infrastructure in detail.		09	L2	CO5
	c)	Explain the importance of Digital Signature.		09	L2	CO5

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