PRN:		Course Code :	MCA201

Second Year **M.C.A.** End Semester Examination Summer 2023

Computer Network and Security

Day and Date : Monday, 12/06/23 **Max Marks : 100**

Time : 2:00 PM - 5:00 PM Duration : 03 hrs

Instructions: All questions are compulsory.

		Marks	Bloom's Level	CO
Q.1	**Attempt the following**			
a)	Explain Framing in detail.	08	L5	CO1
b)	Evaluate term OSI model.	08	L5	CO1
	OR			
b)	What is network topology? Explain star topology	08	L1	CO1
Q.2	**Attempt the following**			
a)	Explain the features of IPv6.	08	L2	CO3
b)	Write the difference between IPv4 and IPv6.	08	L1	CO3
	OR			
b)	What is circuit switching and its phases?	08	L1	CO2
Q.3	**Attempt any two from the following**			
a)	Explain TCP/IP.	08	L2	CO2
b)	Discuss Transport Layer Protocol.	08	L6	CO3
c)	What is User Datagram Protocol	08	L1	CO3
Q.4	**Attempt any two from the following**			
a)	Explain various cryptographic attacks in detail	08	L2	CO4
b)	Which are the Security Services of Cryptography?	08	L1	CO4
c)	Explain in detail security goals	08	L2	CO4
Q.5	**Attempt any Two of the following**			
a)	Distinguish between symmetric encryption and asymmetric encryption	09	L4	CO4
b)	Explain in detail DES algorithm in detail	09	L2	CO4
c)	Make a use of cipher with its two types	09	L3	CO4
Q.6	**Attempt any Two of the following**			
a)	Explain Hash Function in detail	09	L2	CO5
b)	What is Digital Signature? Explain working of Digital Signature	09	L1	CO5
c)	Explain in detail Message Authentication Code	09	L2	CO5

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