PRN:		Course Code :	PCA203R

First Year **M.C.A.** End Semester Examination Summer 2024

Computer Network and Security

Day and Date: 25 MAY 2024 , Sat Max Marks: **100**

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

Instructions: 1. All questions are compulsory.
2. Draw Diagrams whenever necessary.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	What are the advantages of fiber optic cable? Explain FDDI.	08	1	1
	b)	Elaborate different types of data flow control mechanism.	08	2	1
		OR			
	b)	Data message 10101010 and divisor X^4+X^3+1.Find total message using CRC method.	08	3	1
Q.2		**Attempt the following**			
	a)	Distinguish IP4 and IP6.	08	3	2
	b)	Describe BGP.	08	4	2
		OR			
	b)	Describe DHCP Protocol in details.	08	2	2
Q.3		**Attempt any Two from the following**			
	a)	Describe TCP Congestion Control Mechanism.	08	4	2
	b)	Explain HTTP.	08	2	2
	c)	Elaborate FTP and Telnet.	08	2	2
Q.4		**Attempt any Two from the following**			
	a)	What is mean by Cryptography attacks, explain in detail services and mechanism.	08	1	3
	b)	Analyze Security goals.	08	2	3
	c)	Illustrate Substitution Cipher.	08	4	3
Q.5		**Attempt any Two of the following**			
	a)	Explain AES.	09	3	4
	b)	Describe Transformations.	09	3	4
	c)	Illustrate DES Structure and DES Analysis.	09	3	4

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Q.6	**Attempt any Two of the following**			
a)	Explain Message Authentication and Hash functions.	09	3	4
b)	Illustrate MACs, HMAC.	09	3	4
c)	Explain Digital Signatures and authentication protocols.	09	4	4