## Paper / Subject Code: 70653 / Information Security

1T00162 - MCA (Sem-II) (R-2020-21) (2 Year Course) / 70653 - Information Security

QP CODE: 10017122 DATE: 01/03/2023.

## [Time: 3 Hours]

[ Marks:80]

Please check whether you have got the right question paper.

N.B: 1. Question No.1 is compulsory.

- 2. Attempt any THREE from the remaining questions.
- 3. Figures to the right indicate full marks.

1.	a)	Explain Information Security principles.	5
	b)	Explain Kerberos.	5
	c)	Describe working of S/MIME.	5
	d)	Explain DOS attack.	5
2.	a)	What is SSL? Explain three major protocols use at SSL.	10
	b)	What is Message Digest? Explain MD5 in detail.	10
3.	a)	Discuss Inference. What are the various approaches to deal with it?	10
ST.	b)	What is Firewall? Discuss its types in detail.	10
4.	a)	What is IDS? Explain Statistical Anomaly Detection and Rule based Detection.	10
	b)	What is PKI? How does PKI work?	10
5.	a) (	Explain Euclidean algorithm. Using Euclidean algorithm, find the greatest common divisor of the following:  i) 285 and 741  ii) 88 and 220	10
Bar	b)	Explain RSA algorithm with example.	10
6.	a)	Explain Digital Encryption Standard (DES) in detail.	10
S. F.	b)	What is MAC? Explain HMAC in detail.	10

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