Total No. of Questions : 8]

P439

SEAT No. :

[Total No. of Pages : 2

[Max. Marks : 70

[6003]-543

T.E. (Artificial Intelligence and Data Science)

CYBER SECURITY

(2019 Pattern) (Semester-II) (317530)

Time : 2¹/₂ Hours]

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Draw neat figures wherever necessary.
- 4) Figures to the right side indicate full marks.
- 5) Use of Calculator is allowed.
- 6) Assume suitable data if necessary.
- Q1) a) Describe the Deffie-Hellman Key Exchange in detail. [6]
 - b) Identify and explain the authentication methods. [6]
 - c) Distinguish between Kerberos and X.509 authentication service. [5]

OR

- (Q2) a) What is Digital Signature Standard? Explain the DSS approach. [6]
 - b) Explain the RSA algorithm in detail with the help of diagram.
 - c) Explain Message Digest algorithm in detail.

Q3) a) Explore Secure Socket Layer Handshake protocol in detail. [6]

- b) What is VPN? Explain types of VPN.
- c) Describe IPSec Protocol with its components and Security Services. [6]

OR

Q4) a) Distinguish between PGP and S/MIME. [6] b) Explain ISAKMP protocol of IPSec. [6]

c) Identify Threats to web Security and figure out how any of two among listed are countered by particular feature of SSL. [6]

P.T.O.

[6]

(05)	Differentiate peaket filtering router and stateful Inspection firewall	[6]
Q 5) a)	Differentiate packet filtering router and stateful Inspection firewall.	[6]
b)	What is trusted system? Explain in brief.	[6]
c)	List limitations of Firewall.	[5]
	OR	
Q6) a)	Illustrate Screened subnet firewall Architecture.	[6]
b)	List and Explain types of intrusion detection system (IDS)	[6]
c)	Identify and explore any two-password management practice.	[5]
Q7) a)	Identify and explore the different types of Cyber stalker attacks.	[6]
b)	Illustrate life cycle of cyber forensics?	[6]
c)	List VoIP hacking types and explore any 3? What are the counter measured	sures
	for it.	[6]
ORO		
Q8) a)	Who are cyber criminals? What are types of cyber crimes.	[6]
b)	What is Botnet? How to protect from botnet?	[6]
c)	Explain the terms:	[6]
	i) Virus	20
	ii) Phishing	
	iii) Spoofing	(d)
	 ii) Phishing iii) Spoofing iv) Phone phishing v) Internet pharming 	2
	v) Internet pharming	
	vi) Cyber Forensic	
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() Explain the terms. i) Virus ii) Phishing iii) Spoofing iv) Phone phishing v) Internet pharming vi) Cyber Forensic ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★		