Total No. of Questions: 8]	90	SEAT No. :
P-7625		[Total No. of Pages : 2

[6180]-145

T.E. (Information Technology) COMPUTER NETWORKS AND SECURITY

(2019 Pattern) (Semester - II) (314451)

Tima	·) 1/	[Max. Marks	s · 70
		ons to the candidates:	. 70
	1)	Answer the questions - Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.	
	2)	Figures to the right indicate full marks.	
	<i>3</i>)	Neat diagrams must be drawn wherever necessary.	
	<i>4</i>)	Use of electronic calculator is allowed	
	5)	Assume suitable data, if necessary.	
Q 1)	a)	Explain Adhoc Network MAC Layer with Design Issues, Design	Goal
		& Classification.	[9]
	b)	Classify protocols used in Sensor Network.	[9]
		OR	
<i>Q</i> 2)	a)	Explain AODV and DSR protocol in detail.	[9]
	b)	Explain the issues in designing a Routing Protocol for Ad-hoc Wir Networks.	eless [9]
Q 3)	a)	Explain the need & importance of security and types of attack.	[8]
	b)	What are different security principles and security services?	[9]
		OR S	
Q4)	a)	Explain Block cipher modes in detail.	[8]
	b)	Explain network security threats with example attacks.	[9]
Q 5)	a)	Define symmetric key encryption? Explain DES in detail.	[9]
	b)	Elaborate Digital signatures, Digital Certificates.	[9]
		OR	

<i>Q6</i>)	a)	Write a note on RSA algorithm.	[9]
	b)	What is private key? Explain Diffie-Hellman key exchange algorithms.	ithm. [9]
			[2]
Q7)	a)	What is cyber temprism? How to identify and detect cyber stalking	ng? [8]
	b)	Explain various cyber crimes and Computer criminals.	[9]
		OR	
Q8)	a)	Define & explain Vulnerability, Threat, Malware & Phishing.	[8]
	b)	Explain DoS Attack and SQL injection attack.	[9]
	1		
			20
		19.18.16. v	
		45 2 19 Men 20 20 20 20 20 20 20 20 20 20 20 20 20	
[618	0]-1	2	