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Total Pages: 03

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MOBILE AD-HOC AND WIRELESS SENSOR NETWORKS PE-CS-S308A

Time: Three Hours

[Maximum Marks: 75

Note: Attempt Five questions in all, selecting at least one question from each Section

Section I

- 1. (a) What are the security threats in a MANET? What are the factors responsible for limited security in MANETs?
 - (b) For every layer of MANET protocol stack, show at least one type of security attack that exploits vulnerability at that layer.
- 2. (a) List the applications of MANET. 5
 - (b) For every layer of MANET protocol stack, show at least one type of security attack that exploits vulnerability at the layer.

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Section II

1 4	1 3 E	
3.	(a)	Illustrate the classification of unicast MANE
414		Routing Protocols.
	(b)	Explain, how multicast routing is carried out in
		ad-hoc networks?
4.	(a)	Explain the functioning of destination sequenced
	X-AN COAS	distance vector algorithm.
. M.co	(b)	Explain in detail the ad hoc on-demand routing
		protocol.
		Section III
5.	(a)	Explain the concept of Self Policing MANET and
en.	y Com	Node Misbehaviour.
in the	(b)	Explain the concept of secure routing and reputation
LE:	eridis ,	systems. (d) 7
6.	(a)	Explain in detail the Link layer for Ad-hoc Network
Q.		Security. Abyer and to will according 7
· ·	(b)	Write about the energy efficient routing in WSN.
	and the second	8
		Section IV
7.	(a)	With required diagram explain the single node
		hardware and software architecture of WSN. 7
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(b)	Is spread spectrum modulation scher	nes are followed
	in WSN ? Justify your answer.	C/, 8

- 8. (a) Explain any three scheduled based MAC protocols of WSN.
 - (b) How localization and QoS are done in WSN? 8