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Total Pages: 03

## BT-6/J-22

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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

3.	(a)	Illustrate the classification of unicast MANET
		Routing Protocols.
	(b)	Explain, how multicast routing is carried out in
		ad-hoc networks?
4.	(a)	Explain the functioning of destination sequenced
		distance vector algorithm.
Med	(b)	Explain in detail the ad hoc on-demand routing
		protocol.
-		Section III
5.	(a)	Explain the concept of Self Policing MANET and
ei.	y fisho	Node Misbehaviour.
1	(b)	Explain the concept of secure routing and reputation
4,6	virgin.	systems.
6.	(a)	Explain in detail the Link layer for Ad-hoc Network
@·		Security. The security 7
,	(b)	Write about the energy efficient routing in WSN.
4	#oda	Section IV
7.	(a)	With required diagram explain the single node
11		hardware and software architecture of WSN. 7
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(b)	Is spread spectrum modulation schemes	are followed	
	in WSN ? Justify your answer.		8

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