Time:	3 hours Max. Marks: 80	
	l) Question No.1 is compulsory.	
	2) Attempt any <b>THREE</b> questions out of remaining <b>FIVE</b> questions. 3) <b>Figures</b> to the <b>right</b> indicates <b>full</b> marks.	
	4) Assume suitable data if <b>necessary</b> .	
Q1		20
a	Illustrate piggy-backing and table update mechanism in Distributed Priority scheduling	
b	Discuss the challenges that a design engineer faces while designing a routing protocol for an ad hoc wireless network.	5
c	What are the Different types of network layer attack? Explain.	
d	Short notes on Hidden and Exposed terminal problem.	
Q.2		
a a	Discuss the issues in designing a transport layer protocol for ad hoc wireless networks.	10
b	Differentiate between cellular networks and ad hoc wireless network.	10
Q.3		
a	Draw and explain diagram of the ad hoc wireless Internet.	10
b	Give classification of MAC protocols with respect to mobile network. Explain any one protocol that best suited for ad hoc wireless network.	10
Q.4		
a	Explain in detail the major reasons behind throughput degradation that TCP faces when used in ad hoc wireless networks.	10
b b	Discuss the various security requirements in ad hoc wireless networks, the different types of attacks possible in such networks, and some of the solutions proposed for ensuring network security.	10
Q.5		
a	With a neat diagram give the working of source initiated and receiver initiated Multicast Routing.	10
b	With a neat diagram give the components of sensor network architecture.	10
Q.6	Write short notes on any FOUR	20
a	UMTS Security.	
b	Energy Management issues in Adhoc wireless network.	
c	Five-Phase Reservation Protocol	
d	HyperLan	
e	Data Dissemination Wireless Sensor Network	
f	Battery Management Schemes	

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