Paper/Subject Code: 42677/MANET (DLOC-IV) B.E. (IT) (Sem-III) (CBCGS) (R-19-20) (C 5chem

Time: 5 nours Wax. Marks: 80		
	1) Question No.1 is compulsory.	
	2) Attempt any THREE questions out of remaining FIVE questions.	
	3) Figures to the right indicates full marks.	
	4) Assume suitable data if necessary .	
Ω1		30
Q1 a	What are applications of Ad Hoc Wireless Networks? Explain.	20
b	Discuss the challenges that a design engineer faces while designing a routing protocol for an ad hoc wireless network.	
e	What are the objectives of transport layer protocol. Which protocol is used for ad hoc networks?	
d	Differentiate between different kind of sensor network architectures.	
Q.2		
a	List and explain different issues in ad hoc wireless network.	10
b	Differentiate between cellular networks and ad hoe wireless network.	19
Q.3		
a h	Draw and explain diagram of the ad hoc wireless Internet. Give classification of MAC protocols with respect to mobile network. Explain any one protocol that best suited for ad hoc wireless network.	10 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	Discuss issues and challenges in security provisioning in an ad hoc wireless network.	10
Q.5		
a	What is the need for energy management in ad hoc wireless networks? Explain.	10
b	Explain in detail sensor network architecture.	10
Q.6	Write short notes on any FOUR	20
a	Classification of routing protocols based on routing information update mechanism.	
b	Hidden and exposed terminals	
, c	Network layer attack in wireless network	
d	HyperLan	
e f	Data Dissemination Wireless Sensor Network Battery Management Schemes	