FACULTY OF ENGINEERING

B. E. 4/4 (CSE) I-Semester (New) (Main) Examination, November / December 2009

Subject : Adhoc & Sensor Networks (Elective - I)

Time : 3 Hours

Max. Marks: 75

Note: Answer all questions of Part-A and any Five questions from Part-B.

Part - A (25 Marks)			
1.	Define Mobile Adhoc Network. Differentiate between proactive and on-demand routing protected.		
2.	Differentiate between proactive and on-demand routing protocols for MANETS. Give examples for both the types of protocols.	3	
3.	What is Multicasting? How is it different in MANETS in comparision to wired networks?	3	
4.	What are the approaches to improve transport layer performance in Adhoc Networks?	3	
5.	What are the reasons for designing QoS enabled MANETS.	2	
6.	List out feul important potential attacks in MANETS.	2	
7.	What is a sensor Network? List out feul important applications of W.S.Ns in the domain of Medical and scientific areas.	3	
8.	What are the resource constraints of sensor nodes.	2	
9.	Differentiate between wi-fi and Wimar technologies.	2	
10.	What are the strategies used to solve the problem of shared medium access in WSN.	3	
Part - B (5 x 10 = 50 Marks)			
11.a)	Give an account on the applications of MANETS in different domains.		
b)	Explain the working mechanism of AODV routing protocol.	4+6	
12.a)	Explain the classification of Malticas protocols in MANETS.		
b)	With neat sketches, explain the various fields of join query and join reply packet formats of ODMRP.	5+5	
13.a)	Write a note on modified TCP.		
b)	Discuss core extraction based distributed Adhoc routing protocol.	4+6	
	Write a note on Intrusion detection techniques in MANETS.		
	What is wireless sensor network and wireless sensor system?	6+4	

15.	Give a brief account of available wireless technologies.	40
16.a)		10
b)	What is cross-layering ; discuss.	gos , gos
17.	Write notes on any Two of the following :	5+5 5+5
	a) Dynamic Source Routing b) QoS issues at MAC layer in MANETS c) Sensor Node Technology	JTJ
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