Code No: 09A80505 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech IV Year II Semester Examinations, May – 2013 Adhoc and Sensor Networks (Common to CSE, IT) Time: 3 hours Answer any five questions All questions carry equal marks	SF SF
1.a) Describe the applications of a MANET. b) Explain the challenges that need to be addressed at Transport, Network and MAC layer of a MANET. [8+7]	
 2.a) Describe the working of signal stability based routing protocol for MANETS. b) Differentiate various routing approaches for MANETS. [10+5] 3.a) Explain the concept of Flooding - Generated broadcast Storm in an adhoc. 	a****a 8**
b) What are the issues that need to be addressed to provide multicasting in a MANET? c) What do mean by Geocast routing? [7+4+4]	
4.a): Discuss the impact of lower tayers on TCP in a MANET. b) Describe the challenges in designing a wireless sensor network. [7+8]	****
b) Describe the working of multipath based routing in a sensor network. [8+7] 6.a) Explain N-party Diffie-Hellman Key Agreement scheme for Adhöc Networks What is a Wormhole attack?	
C) List the problems that affect secure adhoc routing. [8+4+3] 7.a) Describe a typical Intrusion detection System architecture for Adhoc Networks. b) Explain the challenges in programming a wireless sensor network. [8+7] Write short notes on:	SF

[15]

a) TinyOS features

b) Features of NS-2 with sensor network extension

c) Sensing and communication range of wireless sensors.