	Enrollr	ment No: Exam Seat  C.U.SHAH UNIVEF  Winter Examination-		
	G 1.		2013	
	Subject	et Name: Mobile Ad hoc Network		
	Subject Code: 5TE03MAN1 Branch: M. To			
	Semest	ter: 3 Date: 22/12/2015 Time: 2:30 To 5:30	Marks: 70	
	(2) (3)	ctions: Use of Programmable calculator and any other electron Instructions written on main answer book are strictly to Draw neat diagrams and figures (if necessary) at right p Assume suitable data if needed.	be obeyed.	
Q-1	b.	SECTION – I  Attempt the Following questions  List characteristics of wireless channel.  Define: Infrastructure less network  Define: Denial of attack	(07)	
	d. e. f. g.	<ul><li>List the applications of mobile ad hoc networks.</li><li>What is hybrid routing protocol?</li><li>Give full names: GSM, GPRS</li></ul>		
Q-2	a)	Attempt all questions Explain various challenges regarding routing in mobil AODV routing protocol with its advantages as well as necessary examples by drawing tables and figures of t	disadvantages. Give	
		OR		
Q-2	a)	Attempt all questions Write short note on secure routing. What are the secur considered over ad hoc channels?	ity parameters to be (10)	
	<b>b</b> )	Give differences between GPRS and GSM.	(4)	
Q-3	a) b)		(7) (7)	



**(7**)

a) Compare table driven and demand driven routing protocols.

Q-3



	D)	distance vector routing? What is the range of a cluster node? What are the entries in a cluster table?		
		SECTION – II		
Q-4		Attempt the Following questions		
	a.	What is power aware routing?		
	b.	Give brief differences between Mobile ad hoc network and sensor network.		
	c.	Define: QoS frame work		
	d.	Define: Throughput		
	e.	Define: End to End Delay		
	f.	Give full names: DSR, ABR		
	g.	Packet radio was a technology that extended packet switching. Justify.		
Q-5		Attempt all questions	(14)	
	a)	Explain the different MAC protocols and issues behind supporting channel access for ad hoc wireless networks.		
		OR		
Q-5	a)	Define hidden terminal problem and exposed terminal problem with an example.	<b>(7</b> )	
	<b>b</b> )	List the problems and issues faced by mobile ad hoc networks using traditional TCP. What are the requirements to shift from traditional TCP to versions of TCP?	(7)	
Q-6		Attempt all questions		
	a)	What are the service discovery architectures for mobile ad hoc networks?	(5)	
	,	Describe.	( )	
	b)	How is a sensor node different from an ad hoc node? Describe.	<b>(5)</b>	
	c)	Shortest path based routing cannot be appropriately applied to wireless ad hoc networks. Why?	(4)	
		OR		
<b>Q-6</b>		Attempt all Questions	<i>_</i>	
	<b>a</b> )	Discuss the importance of TCP Reno, TCP Vegas and TCP Tahoe.	<b>(7)</b>	
	<b>b</b> )	Classify the QoS solutions based on MAC layer and the network layer.	<b>(7)</b>	

