Seat No.: _	Enrolment No GUJARAT TECHNOLOGICAL UNIVERSITY	
	M. E SEMESTER – II • EXAMINATION – SUMMER • 2014	
Subject co	ode: 725303 Date: 20-06-2014	
•	ame: Mobile Ad Hoc Networks	
Time: 02:	30 pm - 05:00 pm Total Marks: 70	
Instruction		
2. I	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full mark.	
Q. No. 1		
	ain various issues and challenges in providing Quality of Services (QoS) in A	Ad hoc
netw		[7 Marks
b. Sugg	gest different approaches to make AODV power aware routing protocol.	[7 Marks
Q. No. 2		
	apare AODV, DSDV and DSR in terms of support for high mobility, overhead	
	reconfiguration methodology. the issues that affect the design deployment and performance of Ad hoc wirele	[7 Marks
U. List	T 1 1 1	[7 Marks
	OR	
b. Exp	ain how to do multicasting in DSR and AODV in detail.	[7 Marks
Q. No. 3		
-	erentiate between On-demand & Table driven with respect to following param	eters:
I.	Availability of routing information	
II.	Periodic route updates	
III. IV.	Coping with mobility Signaling traffic	[8 Marks
1 V .	Signating traffic	[6 Warks
b. Give	the difference between cellular networks and ad hoc wireless networks.	[6 Marks
	OR	
Q. No. 3	A A MAG A STATE OF THE STATE OF	a
	uss the three MAC services provided by the IEEE 802.11 that are not provided tional LAN's such as 802.3.	d in the [7 Marks
	uss the various HiperLAN standards defined for wireless Networks by ETSI.	-
	1	
Q. No. 4		CDD\0
a. wha	t are the advantages and disadvantages of dynamic source routing protocol (D	(SRP)? [7 Marks
b. Men	tion & explain any three qualities of service metrics that are used to evaluate t	-
	ormance of the network.	[7 Marks
O No 4	OR	
Q. No. 4 a. Expl	ain the issues in designing a transport layer protocol for Ad hoc wireless netw	
ի Ե Կ		[7 Marks
	ain the types of Ad hoc network routing protocols based on routing information hanism.	on upaate [7 Marks

Q. No. 5

a. Is hopólength always the best metric for choosing paths in MANETs? Justify your answer.

[7 Marks]

b. With suitable trace, explain the route establishment in location aided routing. [7 Marks] OR

Q. No. 5

a. List the characteristics of ideal routing protocol for ad hoc wireless network. [7 Marks]

b. Both ABR and SSA use stability information for routing. How do they differ in using the stability information? Explain in brief about ABR traffic management. [7 Marks]
