Seat N		
	GUJARAT TECHNOLOGICAL UNIVERSIT	Y
	M. E SEMESTER - II • EXAMINATION - SUMMER •	2014
Subje	ect code: 2725303 Date: 20-0	06-2014
-	ect Name: Mobile Ad Hoc Networks	
•	: 02:30 pm - 05:00 pm	ks: 70
	ections:	
1. 2.	Attempt question 1, which is compulsory and answer any four from the re Make suitable assumptions wherever necessary. Figures to the right hand indicate the marks.	est questions.
Q. No.	1	
-	What is an Ad hoc network? Why ad hoc networks are needed?	[7 Marks]
	What are the challenging issues in ad hoc network maintenance? Discuss	
Q. No.	. 2	
	How scalability improved in Ad hoc wireless network. Discuss about it.	[7 Marks]
b.	Describe in detail about the contention based MAC protocol with distribumultiple access mechanism.	ted packet reservation [7 Marks]
	OR	
b.	Discuss various issues with service discovery & energy management in M	IANET. [7 Marks]
Q. No.	3	
_	Briefly describe DSDV routing protocol.	[7 Marks]
	Discuss evolution & technology strategies from 1 <sup>st</sup> generation cellular sys	
٥.	cellular system (in terms of application, spectrum, speed, modulation tech	
	OR	J
Q. No.	. 3	
	Explain working strategy of DSDV protocol in detail.	[7 Marks]
b.	Why MANET protocols like AODV are not suitable for VAN ET? Explain	
	modifications needed in MANET protocols to make it suitable for VANE	T. [7 Marks]
Q. No.	Λ	
_	Explain cluster formation in CBRP and discuss various issues involved in	hierarchical routing.
•		[7 Marks]
b.	List and discuss any two needs of real- time MAC protocol.	[7 Marks]
	OR	
Q. No.		
a.	Compare the efficiency of the packet queuing mechanism adopted in MA	
		[7 Marks]
b.	List the benefits when deployment of a commercial Ad hoc wireless netw	-
	wired network.	[7 Marks]
Q. No.	. 5	
a.	Compare in detail about Ad-hoc Networks and Wireless LAN.	[7 Marks]
b.	Explain the applications areas of Ad hoc networks.	[7 Marks]
	OR	
Q. No.		1 5835 13
a.	List and discuss the issues of designing a MAC protocol for Ad hoc network	
b.	What are the effects of exposed terminal problem in wireless networks?	•
	*****	[7 Marks]