Seat No	o.: Enrolment No	
	GUJARAT TECHNOLOGICAL UNIVERSITY M. E SEMESTER – I • EXAMINATION – WINTER • 2014	
Subje	ct code: 3715303 Date: 09-01-2015 ct Name: Wireless Communication and Mobile Computing c 02:30 pm - 05:00 pm Total Marks: 70	
2	ctions: . Attempt all questions. . Make suitable assumptions wherever necessary. . Figures to the right indicate full marks	
	Explain how hidden node & exposed node problem can be solved by using RTS/C	TS. [7 Marks] [7 Marks]
b.	Explain QoS support extended by IEEE 802.11e EDCA.	
b.	Explain in detail about Piconet and Scatternet formation in Bluetooth. What are the different types/levels of mobility? Explain different solutions availabt hose mobility issues.	[7 Marks] le to tackle [7 Marks]
0.11	OR	
b.	Which parameters affect the cellular network design? Explain the process of exparcellular network capacity. Explain IEEE802.11 frame structure.	nding the [7 Marks] [3 Marks] [4 Marks]
Q. No.	1	
a.	Explain how packets intended for mobile host is intercepted by Home Agent in Modiscuss Proxy ARP. How Gratuitous ARP works? In the IEEE 802.11 standard, explain the purpose of the SIFS, PIFS, and DIFS into	[7 Marks]
Q. No.		
a.	Compare performance of conventional TCP with any of the TCP version proposed Network.	for wireless [7 Marks] [7 Marks]
Q. No.	5	
a.	In the Distributed Coordination Function DCF protocol of IEEE 802.11, why does only SIFS time units (after the last data packet reception) before sending an ACK, DIFS time units before attempting a data transmission?	
	OR	
Q. No.	5 Explain timing synchronization function in Infrastructure mode of Wireless I AN	[7 Morke]

a. Explain timing synchronization function in Infrastructure mode of Wireless LAN. [7 Marks]

b. Study the effect of changing beacon interval on control packet overhead and throughput.Simulate in ns2. [7 Mar [7 Marks]