Seat No.:	nrolment No
GUJARAT TECHNOLOGICA M. E SEMESTER – I • EXAMINATION	
Subject code: 715303 Subject Name: Wireless Networks and Mobile Co	Date: 06-06-2013 omputing
Time: 10.30 am – 01.00 pm Instructions:	Total Marks: 70
 Attempt question 1, which is compulsory and answer Make suitable assumptions wherever necessary. Figures to the right hand indicate the marks. 	any five from the rest questions.
 Q. No. 1 a. State types of services supported by 802.11 MAC. b. State any two applications of 802.11e standard. c. What is the difference between Piconets and Scattern d. Explain WLAN Topologies? e. Why is Frequency Hoping used in Bluetooth? f. What is ARQ? Where is it used? g. What do you mean by `Modulationø? h. What is a `Frequency Spectrumø? i. What are the different `Multiple Access' techniques u j. What are the different states of a Bluetooth device? 	
Q. No. 2a. Compare DCF & PCF in detail.b. State the different types of services supported by 802.	[4 Marks] 11 MAC [6 Marks]
Q. No. 3a. What are the main new features of 802.11e standard?b. Compare the GSM and CDMA mobile networks.	[5 Marks] [5 Marks]
Q. No. 4a. What are the QoS limitations of 802.11 MAC?b. What are the QoS limitations of DCF & PCF?	[5 Marks] [5 Marks]
 Q. No. 5 a. Explain EDCF (Enhanced Distributed Coordination F b. Explain ARQ error detection scheme used in Bluetoot 	
Q. No. 6a. Explain in detail how the mobility support is achievedb. Draw the overview of 802.11 protocol stack and explain	
Q. No. 7	

[10 Marks]

[10 Marks]

Draw & explain the protocol architecture of Bluetooth.

Explain in detail Inquiry & the Paging Procedure in Bluetooth.

Q. No. 8