Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

ME – SEMESTER I (NEW) – • EXAMINATION – SUMMER 2016

Subject Code: 2710209 **Date:18/05/2016**

Subject Name: Wireless Communication

Time:02:30 pm to 05:00 pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	What is the use of multiplexing in wireless communication? Explain space division multiplexing.	**07**
	(b)	Explain about following effects on signal during propagation Scattering Reflection and Refraction Multi path propagation	**07**
Q.2	**(a)**	What is the use of spread spectrum? Explain various steps involved in spread spectrum.	**07**
	(b)	Draw neat and clean diagram of GSM architecture.	**07**
		OR	
	(b)	Describe FHSS in detail with suitable example.	**07**
Q.3	**(a)**	Explain logical channel distribution in GSM	**07**
	(b)	Explain roles of GGSN and SGSN in GPRS with suitable diagram	**07**
		OR	
Q.3	**(a)**	Write and explain various steps involved in Mobile originated call.	**07**
	(b)	What do you mean by Hand Over in GSM? Explain various Hand Over scenarios.	**07**
Q.4	**(a)**	Draw protocol architecture of 802.11 Also explain frame format of physical layer in 802.11	**07**
	(b)	Explain packet delivery in mobile IP	**07**
		OR	
Q.4	**(a)**	Explain steps involved in route establishment process of AODV protocol with suitable example.	**07**
	(b)	Justify the requirement of reverse tunneling.	**07**
Q.5	**(a)**	Write a note on snoop TCP	**07**
	(b)	Write android program which demonstrates usage of string resources in java code.	**07**
		OR	
Q.5	**(a)**	Explain directory structure of Android application.	**07**
	(b)	Write android program to create temperature converter application.	**07**

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