Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER- I (New course) • REMEDIAL EXAMINATION - SUMMER 2015

Subject Code: 2710209		Code: 2710209 Date:14/05/203	Date:14/05/2015	
Sub	ject Na	me: Wireless communication		
Time: 10:30 am to 1:00 pm Total Man		0:30 am to 1:00 pm Total Marks: 7	70	
Inst	truction			
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks		
0.1			0.5	
Q.1	(a)	(i) How code division multiplexing works? Write advantage of code division multiplexing.	07 03	
		(ii) Write the four possible handover scenarios.	04	
	(b)		07	
		(i) How logging support is added to Android application?(ii) How String, Boolean, Integer resources are used?	03 04	
Q.2	(a)		07	
		(i) Explain the functioning of Direct Sequence Spread Spectrum transmitter and receiver.		
		(ii) What is the use of spreading factor? Sending data 01 with 11 chip barker code 10110111000 results in which spread signal?		
	(b)		07	
		(i) Which features are included in Tweened animation? What is to be written in XML file if the target graphic is to be rotated counterclockwise four times in place, taking 10 seconds to complete.		
		(ii) What lines need to be written to load the animation resource file spin.xml and set the animation in motion?		
	a >	OR	0.5	
	(b)	(i) Explain the methods used for callbacks of Activity class.	07	
		(ii) For what purpose layout XML resource is? Explain how to use layout resource programmatically?		
Q.3	(a) (b)	Explain radio subsystem of GSM(global system for mobile communications).	07 07	
	` /	(i) What is contention window and backoff timer?		
		(ii) Explain the exponential backoff algorithm.		
		(iii) What is net allocation vector? For what purpose it is used? OR		
Q.3	(a)	Explain GPRS reference architecture.	07	
	(b)	Explain power management in IEEE 802.11 infrastructure networks.	07	
Q.4	(a)		07	
		(i) Explain care of address(COA). Which are the two different possibilities for the location of COA?	03	
		(ii) What is the role of Home Agent? Which are the three alternatives for the implementation of Home Agent?	04	

	(b)	Explain route discovery process of dynamic source routing. What is the	07
		problem if the link is not bidirectional?	
		OR	
Q.4	(a)		07
		(i) Explain the purpose of sequence numbers and damping in destination sequence distance vector.	03
		(ii) Explain the routing table used by destination sequence distance vector.	04
	(b)	Explain Bluetooth protocol stack.	07
Q.5	(a)	Explain Indirect TCP.	07
	(b)		07
	, ,	(i) What is the idea behind Fast transmit/fast recovery? Write the advantage and disadvantage.	
		(ii) What is the idea behind Transmission/time-out freezing? Write the	
		advantage and disadvantage.	
		OR	
Q.5	(a)	Explain snooping TCP.	07
	(b)	Explain security services offered by global system for mobile communications.	07
