## **GUJARAT TECHNOLOGICAL UNIVERSITY** MCA - SEMESTER-V • EXAMINATION – SUMMER • 2015

Subject Name: Wireless Communication Mobile			11-05-2015 Marks: 70	
	2.	<ul> <li>Attempt all questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ul>		
Q.1	<b>(a)</b>	Attempt the following	07	
		<ol> <li>(1) There are basic frequencies on which RFID operates.</li> <li>(2) Full name of IMSI is</li> <li>(3) GSM is general usesMHz band.</li> <li>(4) The maximum data transfer speed of Bluetooth network isMbp</li> <li>(5) The first GSM network launched in the year</li> <li>(6) The GSM is uses the radio interface is TDMA (True or False).</li> <li>(7) Full name of BSSGP is</li> </ol>	DS. 	
	(b)	Explain three tier architecture of mobile computing in detail.	07	
Q.2	(a) (b)	Explain evolution of mobile computing in detail. Explain Bluetooth technology in detail. OR	07 07	
	<b>(b)</b>	Explain RFID technology in detail.	07	
Q.3	(a) (b)	Explain mobile TCP in detail. Explain spread spectrum technology in detail. <b>OR</b>	07 07	
Q.3	(a) (b)	Explain GSM Architecture in detail. Explain CDMA V/s GSM in detail.	07 07	
Q.4	(a) (b)	Explain GPRS network operation in detail. Explain GPRS and Packet Data Network in detail. OR	07 07	
Q.4	(a) (b)	Explain Mobile ad hoc and sensor network in detail. Explain Session Initial Protocol (SIP) in detail.	07 07	
Q.5	(a) (b)	Explain security issues in mobile information security in detail. Explain application in 3G wireless Lan in detail. OR	07 07	
Q.5	(a) (b)	Explain GSM authentication and security in detail. Explain AOC and SOC in detail.	07 07	

\*\*\*\*\*