Soot N	No.:	Enrolment No.	
Seat I	NO	GUJARAT TECHNOLOGICAL UNIVERSITY	
		BE - SEMESTER-VII (NEW) EXAMINATION – WINTER 2018	
Suhi		Code: 2170710 Date: 26/11	/2018
_		Name: Mobile Computing and Wireless Communication	/2010
-		30 AM TO 01:00 PM Total Mark	·c• 70
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	1. 2. 1	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a) (b)	What is ARQ? What is importance of it? What is noise? Discuss briefly types of noise and its effect on transmission signal.	03 04
	(c)	Compare and contrast OSI model and TCP/IP protocol architecture.	07
Q.2	(a)	What do you mean by channel capacity? What are the factors that affect it?	03
	<b>(b)</b>	Differentiate circuit switching and packet switching	04
	(c)	What is Mobile IP? Explain discovery, registration and tunneling in Mobile IP.	07
	(c)	<b>OR</b> What is Direct Sequence Spread Spectrum technology? How does it	07
	(C)	work in CDMA technology?	07
Q.3	(a)	Compare GSM and CDMA technology.	03
	<b>(b)</b>	Explain various transmission media w.r.t. merit, demerits and application of each.	04
	<b>(c)</b>	Explain functional architecture of GSM system and types of services provided by GSM.	07
0.0		OR	0.0
Q.3	(a)	Define IMSI, IMEI and MS-ISDN and write significance of each.	03
	<b>(b)</b>	What is Handover? Explain types of it in brief.	04
	<b>(c)</b>	Explain IEEE 802.11 architecture and services.	07
Q.4	(a)	Define following.  1) Fading 2) Modulation	03
	<b>(b)</b>	What are HLR and VLR? Describe its functions in call routing and roaming.	04
	(c)	Draw and explain Bluetooth Protocol Architecture.	07
		OR	
<b>Q.4</b>	(a)	Define ASK, FSK & PSK.	03
	(b)	Describe Error Control Coding in brief.  Discuss the nativearly elements in CDDS that are different from CSM.	04
	(c)	Discuss the network elements in GPRS that are different from GSM.  Also discuss applications and limitations of GPRS	07

Also discuss applications and limitations of GPRS.

(a) Explain Android TextView control with an example. Q.5 03 How billing and charging functions are handled in GPRS? **(b)** 04 Explain different layouts in Android. (c) **07** OR Q.5 Explain Android ButtonView control with an example. 03 (a) Discuss briefly: Limitations of GPRS. **(b)** 04 Explain Android architecture with diagram. **07** (c) \*\*\*\*\*