____ **C.U.SHAH UNIVERSITY Summer Examination-2019**

-	ect Co	me: Mobile Computing and Applicati de: 4TE07MCA1 7 Date: 13/03/2019	on Development Branch: B.Tech (CE) Time: 10:30 To 01:30	Marks: 70		
(2) (3)) Use) Ins) Dra	: e of Programmable calculator & any oth tructions written on main answer book a nw neat diagrams and figures (if necessa sume suitable data if needed.	re strictly to be obeyed.	rohibited.		
Q-1		Attempt the following questions:		(14)		
	 a) b) c) d) e) f) g) h) i) j) k) l) m) 	What is the importance of having an en- environment? Differentiate between free space loss a What are the 3 fundamental propagation frequency? What is called burst and normal burst? List out the different types of handover What is Piconet? What is adb? Can we apply media access methods fr answer. What is the use of Ad-Hoc networks? What is the use of Ad-Hoc networks? What are the physical elements of BTS What is Intent? Define Cell. What are types of spread spectrum?	nd path loss. on behaviors depending on th rs used in GSM? rom fixed networks? Justify			
	n)	Write down full form of PSTN.				
Attempt any four questions from Q-2 to Q-8						
Q-2	a) b)	Attempt all questions What is mobile computing? Compare S List out GSM Specification and explai		(14) (07) GSM. (07)		
Q-3	a) b)	Attempt all questions Explain strength of SMS. Explain SMI Explain mobile originated call and mo		(14) (07) re. (07)		

Attempt all questions Q-4 (14) a) Explain wireless LAN security issues. Also discuss hidden & exposed station (07)



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	b)	problem. Differentiate between CDMA technology and GSM technology.	(07)
Q-5	a) b)	Attempt all questions Explain Physical and Logical architecture of wireless Communication. Explain the essential characteristics of frequency reuse concept. Draw and explain cell cluster in GSM for k=4.	(14) (07) (07)
Q-6	a) b)	Attempt all questions Explain wireless TCP and differentiate among Indirect TCP, Snooping TCP and Mobile TCP. Explain Android Activity life cycle.	(14) (07) (07)
Q-7	a) b)	Attempt all questions Discuss GPRS specific applications along with limitations of GPRS. Create a simple registration form using Edit Text, Radio Button, and store the user value in Shared Preference.	(14) (07) (07)
Q-8	a) b)	Attempt all questions What do you mean by mobile IP? How does mobile IP work? Explain types of android application. And create any small application in android. Explain.	(14) (07) (07)

