Tota	l No.	of Questions : 8] SEAT	No. :		
P-6	561		[Total No. of Pages : 2		
		[6181] 111			
B.E. (Computer Engineering)					
MOBILE COMPUTING					
(2	2019	Pattern) (Semester - VII) (410245C) (Elective - IV)		
Time	$e: 2^{1/2}$	Hours]	[Max. Marks: 70		
Instructions to the candidates:					
	<i>1</i>)	Solve Q.1 or Q.2, Q.3 or Q.4 Q.5 or Q.6, Q.7 or Q.8.	200		
	<i>2</i>)	Figures to the right indicate full marks.			
	<i>3</i>)	Assumme suitable data if necessary.	S .		
	4)	Neat diagrams must be drawn wherever necessary.			
Q 1)	a)	Explain the network and switching Sub-System of	f GSM architecture. [5]		
	b)	Compare various IEEE 802.41 x standards.	[5]		
	c)	Explain UMTS architecture in detail. OR	[7]		
Q 2)	a)	Explain different architectures of WLAN.	[5]		
	b)	Explain the Um interface of GSM.	[5]		
	c)	Explain using block diagram the process of authors Service.	entication in a GSM [7]		
Q 3)	a)	Explain difference between Hard and Soft Hando	ff. [5]		
	b)	Explain the Cell dragging in detail.	[5]		

Explain the Cell dragging in detail.

Explain the process of call origination and call termination in GSM.[7]

OR

Q4) a) Explain mobility management with neat diagram. [5]

b) Define Handover. List and explain the types of handover. [5]

c) Explain GSM interfaces and GSM protocol architecture. [7]

P.T.O.

Q 5)	a)	Describe data transfer from a mobile node to a fixed node and versa.	[6]
	b)	Explain agent advertisement and discovery registration in m network.	obile [6]
	c)	Why and how can optimization in mobile IP be achieved? OR	[6]
Q6)	a)	How is packet delivery achieved to and from mobile node.	[5]
	b)	Discuss how tunneling works for mobile IP using IP_i encapsulation.	n_IP [5]
	c)	Describe DSDV and DSR routing algorithms for ad hoc network	k. [8]
Q 7)	a)	Write short note on VoLGA architecture.	[5]
	b)	Explain evolution from UMTS to LTE	[5]
	c)	Explain 3G and 4G technologies for GSM and CDMA.	[8]
Q 8)	a)	Explain SAE architecture in detail.	[6]
	b)	What is HSPA? Explain in detail.	[6]
	c)	Explain the 4G LTE technologies with a neat diagram.	[6]
		Sylvan HHH	
C	くつ	Explain 3G and 4G technologies for GSM and CDMA. OR Explain SAE architecture in detail. What is HSPA? Explain in detail. Explain the 4G LTE technologies with a neat diagram. ***********************************	

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