Tota	l No.	of Questions : 8] SEAT No. :			
P-6	561	[Total No. of Pages : 2			
		[6181]-111			
B.E. (Computer Engineering)					
MOBILE COMPUTING					
(2019 Pattern) (Semester - VII) (410245C) (Elective - IV)					
		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.			
	<i>2</i> )	Figures to the right indicate full marks.			
	<i>3</i> )	Assumme suitable data if necessary.			
	<i>4</i> )	Neat diagrams must be drawn wherever necessary.			
Q1)	a) (	Explain the network and switching Sub-System of GSM architecture			
Q1)	a) (	[5			
	b)				
	U)				
	c)	Explain UMTS architecture in detail. [7]			
		OR			
Q2)	a)	Explain different architectures of WLAN. [5]			
	b)	Explain the Um interface of GSM.			
	c)	Explain using block diagram the process of authentication in a GSM			
		Service. [7]			
		8.			
Q3)	a)	Explain difference between Hard and Soft Handoif. [5]			
	b)	Explain the Cell dragging in detail. [5]			

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

OR

c)

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

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

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

*P.T.O.* 

<b>Q</b> 5)	a)	Describe data transfer from a mobile node to a fixed node and versa.	vice [6]
	b)	Explain agent advertisement and discovery registration in monetwork.	bile [ <b>6</b> ]
	c)	Why and how can optimization in mobile IP be achieved?  OR	[6]
<b>Q6</b> )	a)	How is packet delivery achieved to and from mobile node.	[5]
	b)	Discuss how tunneling works for mobile IP using IP_in encapsulation.	_IP [ <b>5</b> ]
	c)	Describe DSDV and DSR routing algorithms for ad hoc network	. [8]
<b>Q</b> 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]
<b>Q</b> 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]
		RHH Springer	
		What is HSPA? Explain in detail.  Explain the 4G LTE technologies with a neat diagram.  ***********************************	