Total	l No. o	of Questions : 8]	SEAT No. :				
PD	<b>458</b>	6 [6404]-91	[Total No. of Pages	: 2			
		B.E. (Computer Engineerin	19)				
MOBILE COMPUTING							
(2019 Pattern) (Semester - VII) (Elective - IV) (410245 (C))							
	`	3					
Time: 2½ Hours] [Max. Marks: 76] Instructions to the candidates;							
Instr			, <i>,</i> O				
	1)	Solve Q1 or Q2, Q3 or Q4, Q5 or Q6, and Q7 or Q6	0.				
	<i>2) 3)</i>	Figures to the right indicate full marks.  Assume suitable data if necessary.					
	<i>3) 4)</i>	New diagrams must be brawn wherever necessary	10°				
	7)	Treat anglights must be brawn wherever necessary	,c'				
<i>Q1)</i>	a)	Draw and explain Mobile computing architect	ure for a mobile device.	[5]			
	b) (	Explain using block diagram the process of	つ authentication in a GS	M			
		Service.		[6]			
			'	[~]			
	c)	Write a short note on SIM.		[6]			
		OR					
<b>Q</b> 2)	a)	Explain the Virtual Home Environment (VHE)	).	[5]			
	<b>b</b> )	Describe the functions of UDP and VI P in as	Il routing and rooming l	( [2]			
	b)	Describe the functions of HLR and VLR in ca	ן. Ioutilig aliu roalilliig ان				
	c)	Explain the GSM System Protocol Architectu	ıre.	[6]			
		1,90.					
<i>Q3</i> )	a)	Explain mobility management with neat diagra	ım.	[5]			
	b)	Explain the process of call origination and cal	1 termination in GSM	[6]			
			0, 0,				
	c)	What do you mean by tunneling, encapsulation	on and decapsulation?	[6]			
		OR C	, , , , , , , , , , , , , , , , , , , ,				
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Q4)	a)	Discuss the Handover mechanism in GSM.	) ·	[5]			
	b)	Short note on Handoff Strategies.	<sup>′</sup>	[6]			
	c)	Write a short note on VLR failure restoration.		[6]			
		8.	n Tr	0			
			P.T.	U.			

Q5) :	a)	Describe data transfer from a mobile node to a fixed node and versa.	vice [5]		
		:015811	[0]		
1	b)	Short note on MANET.	[5]		
(	c)	Describe DSDV and DSR routing algorithms for ad hoc networks.	[8]		
	,	So y city	. ,		
		OR			
Q6) :	a)	Explain the VANET.	[6]		
1	b)	Explain generic routing encapsulation.	[5]		
	c)	How to achieve the optimization in mobile IP? Why?			
		in the second se			
		9.			
Q7) :	a)	Explain block diagram for UMTS in detail.	[6]		
1	b)	Write a short note on Quality of service in the 3G network.	[6]		
(	c)	State and explain the features of W-CDMA.	[6]		
		OR			
(19)	o)	Evaloin LITD A Notwork (UTD AN) Ambitostum	157		
Q8) :	a)	Explain UTRA-Network (UTRAN) Architecture.	131		
1	b)	Write a note on CDMA 2000.	[5]		
(	c)	Write a short note	[8]		
		Explain UTRA-Network (OTRAN) Architecture.  Write a note on CDMA 2000.  Write a short note  i) HSPA  ii) HSDPA  2			
	4	ii) HSDPA			
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