Total No. of Questions: 10]		SEAT No. :
P3228		[Total No. of Pages : 2
	[5354]-684	

		[3334]-004			
B.E. (Computer Engineering)					
MOBILE COMPUTING (Elective - III)					
		(2012 Pattern)			
Time	2:24	[Max. Marks .	: 70		
Insti		ons to the candidates:			
	1) 2) 3)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8 and Q9 or Q10 Neat diagrams must be drawn wherever necessary. Assume suitable data if necessary.			
01)			•41		
Q1)	a)	What is the need of spread spectrum technology? Explain DSSS v one example	vitn [5]		
	b)	Describe mobile computing architecture with neat diagram.	[5]		
		OR			
Q 2)	a)	Differentiate between different wireless switching techniques.	[5]		
	b)	Explain in detail GSM network architecture.	[5]		
Q3)	a)	Explain with a neat diagram GSM network interfaces and protocols.	. [5]		
	b)	Compare TDMA and FDMA systems.	[5]		
		OR			
Q4)	a)	What is handover? When handover in mobile communication takes pla	ace? [5]		
	b)	How the next generation wireless technologies are different than technologies.	3G [5]		
Q5)	a)	What is basic purpose of DHCP? Name the entities of DHCP.	[6]		
	b)	Explain tunneling and encapsulation in mobile IP.	[6]		
	c)	Explain in detail the differences between AODV and the standard dista vector algorithms.	nce [6]		
		OR			

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Q6)	a)	What is tunneling? How does a tunnel differ from a route? [6]
	b)	Explain Snooping TCP. Give the advantages and disadvantages of Snooping TCP.
	c)	What are the security threats to a MANET? Why a MANET face greater security threats than a fixed infrastructure network? [6]
Q7)	a)	Describe pull-based data-delivery mechanism in detail . What are the advantages and disadvantages of pull-based data-delivery? [8]
	b)	What are the different types of data synchronizations in mobile computing systems? Describe synchronization usage models in mobile applications. [8]
		OR
Q8)	a)	What is selective tuning? Discuss the methods used for selective tuning.[8
	b)	Explain what is synchronization protocol? Explain how Bluetoot synchronizes mobile applications. [8]
Q9)	a)	What is mobile agent? What are advantages of using a mobile agent. [8]
b)		Write Short note on [8
		i) Difference between iOS and Android OS.
		ii) Service discovery and device management in mobile O.S.
		OR
Q10) a)	Explain what is gateway? Describe a transcoding gateway and it applications in mobile computing systems.
	b)	Write Short note on [8
		i) Functions of Application Server.
		ii) Requirement of Mobile File System.

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