Total No. of Questions: 10]	SEAT No. :
P4945	[Total No. of Pages : 3

[4959]-1164

B.E. (Computer Engineering) (End Semester)

		MOBILE COMPUTING		
(2012 Pattern) (Elective - III)				
Time	2:21/2	Hours] [Max. Marks:	70	
Q1)	a)	What are different technical challenges and limitations of wirel communication?	ess [5]	
	b)	Why do you think the ciphering key Kc must differ from one call another?	l to [5]	
		OR		
Q2)	a)	What is Handover? Explain various types of it.	[5]	
	b)	Explain functioning of Cellular network. How the given set of frequence are used to increase capacity of a network?	cies [5]	
Q3)	a)	Describe mobility management with suitable diagram.	[5]	
	b)	Explain the multiple access efficiency of FDMA system.	[5]	
		OR		
Q4)	a)	Explain Wireless Communication System with Block Diagram.	[5]	
	b)	Explain HSPA communication standard with its features and Architectu	ure. [5]	
Q5)	a)	What is mobile IP explain in detail.	[5]	
	b)	What do you mean by tunneling, encapsulation and de capsulation?	[5]	
	c)	Describe Indirect TCP. Explain the modifications of Indirect TCP as selective repeat protocol and mobile-end transport protocol.	the [8]	

OR

Q6)	a)	Explain Mobile TCP. How does a supervisory host send TCP packets to the mobile node and to a fixed TCP connection? Give the advantages and disadvantages of Mobile TCP. [8]
	b)	What is Reactive Routing Protocol in MANET? Describe DSR Routing Protocols. [5]
	c)	Explain in detail the security threats to a MANET? [5]
Q7)	a)	Show architecture for data dissemination and broadcast. Explain the reason for communication asymmetry in mobile network. [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)	Describe pull-based data-delivery mechanism. What are the advantages and disadvantages of pull-based data-delivery? [8]
	b)	Explain in detail the classification of data delivery mechanism in Mobile Computing. [8]
Q9)	a)	Write short note on the following: [8]
		i) Mobile agent
		ii) Android OS
	b)	Explain the role of a gateway in connecting networks using different protocols. Describe a transcoding gateway and its applications in mobile computing systems [8]

OR

- i) Characteristics of Mobile OS
- ii) Mobile File System
- b) Describe the functions of a mobile agent. Why does an agent move from tier to tier during an application? Distinguish between an agent and a server. [8]

