Total	l No	. of Questions : 10] SEAT No. :	SEAT No. :		
P31	117	[5154]-684 [Total No. of Pages	s :2		
		B.E. (Computer Engineering)			
MOBILE COMPUTING					
(2	012	2 Course) (Semester - II) (Elective-III) (End Sem.) (410451A	(۱		
Time	: 21/	[Max. Marks :	: 70		
		ons to the candidates:			
	1) 2)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10. Neat diagrams must be drawn wherever necessary.			
	3)	Assume suitable data, if necessary.			
Q1)	a)		[5]		
	b)	disadvantages. Explain using block diagram the process of authentication in a GSM	[5]		
	U)	Service.	ျ		
		OR			
<i>Q2</i>)	a)	Why CSMA/CD is not used in Wireless Networks?	[5]		
~	b)	•	[5]		
		WiMAX?			
Q3)	a)	Explain different wireless switching Techniques.	[5]		
~	b)		[5]		
		OR			
Q4)	a)	Differentiate between CDMA and TDMA.	[5]		
	b)	What is handover? When handover in mobile communication take	[5]		
		place?			

Q5) a) Describe the registration of a visiting mobile node on handover. [6]

- b) What do you mean by tunneling, encapsulation and de-capsulation? [6] How does a tunnel differ from a route?
- c) Explain Mobile TCP? Give the advantages and disadvantages of Mobile TCP.[6]

OR

Q6)	a)	What is MANET? Explain DSR protocol in detail.	[6]
	b)	In tunneling, why the "Time to Live" is set to one when IP packet	[6]
		tunnels from the home to the foreign agent?	
	c)	Explain Snooping TCP. Give the advantages and disadvantages of	[6]
		Snooping TCP.	
<i>Q7</i>)	a)	Explain what do you mean by data dissemination?	[5]
	b)	What do we mean by selective tuning? Discuss the methods used	[7]
		for selective tuning.	
	c)	Explain the synchronization process.	[4]
		OR	
Q8)	a)	Describe Push-based data-delivery mechanism. What are the	[8]
		advantages and disadvantages of Push-based data-delivery?	
	b)	Explain the reason for communication asymmetry in mobile	[8]
		network. Give examples of asymmetric communication architecture	
		for data dissemination.	
Q9)	a)	What is mobile agent? Explain in detail the advantages of using a	[8]
		mobile agent.	
	b)	Explain basic characteristics of mobile operating systems and write	[8]
		difference between iOS and Android OS.	
		OR	
Q10) a)	Explain the requirments of a mobile file system over the conventional	ıl
		one, also describe CODA file system.	[8]
	b)	Write Short note on.	[8]
		i) Mobile-agent-based architecture	
		ii) Android application development platform.	