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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Sixth semester B.Tech degree examinations (S), September 2020

Course Code: CS364 Name: MOBILE COMPUTING

		Course Name: MOBILE COMPUTING			
Max. Marks: 100 Duration: 3 Hours					
PART A Answer all questions, each carries3 marks. Marks					
1		Differentiate between Telecommunication networks and Internet?	(3)		
2		List the functions of following middleware?	(3)		
		a) Message Oriented Middleware b) Transaction Processing Middleware			
3		Write the functions of Home Location Register (HLR) and Visitors Location	(3)		
		Register (VLR) in GSM?			
4		Why spread spectrum is used in wireless communication? List the benefits?	(3)		
		PART B			
		Answer any two full questions, each carries9 marks.			
5	a)	Differentiate between TDMA, SDMA and FDMA?	(5)		
	b)	What are the functions of Transcoding Middleware? Give two examples?	(4)		
6	a)	Explain the various applications of mobile computing.	(5)		
	b)	List out and explain the design issues for mobile computing.	(4)		
7		Explain the working of GSM with the help of a neat diagram.	(9)		
		PART C			
•		Answer all questions, each carries3 marks.			
8		Classify the routing algorithms used in Mobile Ad hoc Network (MANET).	(3)		
9		Write the limitations of conventional TCP (for wired network) to be used in	(3)		
		mobile networks?			
10		Write three benefits of WAP (Wireless Access Protocol)?	(3)		
11		List out the steps involved in DHCP for assigning an IP address to a newly	(3)		
		connected host machine.			
PART D					
12		Answer any two full questions, each carries 9 marks. Describe the working of Dynamic Source Routing with suitable example.	(9)		
13	a)	Explain channel allocation strategies in cellular networks?	(5)		

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	b)	List out two Hand-off prioritization techniques?	(4)
14	a)	Describe the following Terminologies used in Mobile IP	(3)
		a) Home Agent (HA) b) Foreign Agent (FA) c) Care-of Address (CC	OA)
	b)	Explain the agent discovery process in Mobile IP.	(6)
		PART E	
		Answer any four full questions, each carries 10 marks.	
15		Explain about Mobile Transport Layer approaches and compare it's pros and o	cons? (10)
16		With neat sketches and illustration, discuss the WAP architecture in detail.	(10)
17	a)	What are uses of following components in Mobile computing? a) XML b) J2ME c) JavaCard	(6)
	b)		(4)
18	a)	Explain the working procedure and protocol stack architecture of Blue	etooth (6)
		technology with suitable diagrams.	
	b)	Briefly explain Super core concept in 5G? List two benefits?	(4)
19	a)	Discuss about the various security issues in mobile networks?	(6)
	b)	What are the benefits of 5G wireless technology?	(4)
20	a)	Explain the LTE architecture and Interface?	(6)
	b)	Compare Li-Fi and Wi-Fi.	(4)