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Question Paper Code: 59224

B.E./B.Tech. DEGREE EXAMINATION, MAY 2022

Elective

Computer Science and Engineering

15UCS924- MOBILE COMPUTING

		(Regu	lation 2015)				
Duration: Three hours			Maximum:				
		Answer A	ALL Questions				
		PART A - ($5 \times 1 = 5 \text{ Marks})$				
1.	MAC protocols wo	orks inlayer		CO1- R			
	(a) Transport	(b) Network	(c) Data link	(d) Physical			
2.	Mobile IP is			CO2- U			
	(a) Static	(b)Dynamic	(c) Fixed	(d) None of these			
3.	GSM was introduc	ed in Gene	ration of networks	CO3- U			
	(a) First	(b) Second	(c) Third	(d) Fourth			
4.	DSR Stands for			CO4- R			
	(a) Distance source	routing	(b) Dynamic source rout	(b) Dynamic source routing			
	(c) Differential spe	ed routing	(d) None of these	(d) None of these			
5.	Mobile OS used in	CO5- U					
	(a) AppleOS	(b)IOS	(c) Android	(d) None of these			
		PART – B (5 x 3= 15 Marks)				
6.	. List few Unique characteristics of Mobile computing.						
7.	State the limitations of Conventional TCP in mobile networks.						
8.	List the different types of nodes and their responsibilities in GPRS.						
9.	List some application of Ad hoc networks.						
10.	State the main requ	irements of Mobile O	S.	CO5- U			

PART – C (5 x 16= 80 Marks)

11.	(a)	(i) Compare Mobile computing and wireless networks(ii) Examine the different Wireless MAC issues.	CO1- U CO1- U	(8) (8)			
	Or						
	(b)	Examine the working principle of Reservation Based Protocols in detail.	CO1- U	(16)			
12.	(a)	Discuss in detail about the salient features and working of Mobile IP.	CO2-U	(16)			
		Or					
	(b)	Elaborate on any two mechanisms used in TCP to get improved performance in wireless environment.	CO2-U	(16)			
13.	(a)	Elaborate on the components involved in GSM architecture and its working principle.	CO3- U	(16)			
		Or					
	(b)	With suitable illustration explain GPRS in operation.	CO3- U	(16)			
14.	(a)	(i) Discuss in detail the working principle of Dynamic source routing protocol.	CO4- U	(10)			
		(ii) Compare Table driven routing and On demand routing	C04- U	(6)			
		Or					
	(b)	(i) Discuss on the design issues for Mobile ad hoc networks	CO4- U	(8)			
		(ii) Explain the concept of security provisioning in ad hoc networks.	C04- U	(8)			
15.	(a)	Examine the design issues in Mobile Payment System. List the different solutions for that.	CO5- App	(16)			
		Or					
	(b)	State the difference between Open source and Proprietary OS. Examine Android and IOS with respect to their salient features and software development cycle.	CO5- App	(16)			