## B.E/B.TECH, M.E/M.TECH, MBA, MCA, POLYTECHNIC & SCHOOLS

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	Reg. No.:
	Question Paper Code: 20422
	B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2022.
	Sixth Semester
	Computer Science and Engineering
	CS 8601 - MOBILE COMPUTING
	(Regulations 2017)
Time : Th	Manimum : 100 marks
	Answer ALL questions.
	PART A — (10 × 2 = 20 marks)
1. How	v does mobile network differ from wired network?
	v is the hidden and terminal problem solved by MAC?
	the functionalities of mobility management layer in GSM.
4. Dra	w the frame structure of IEEE 802.11.
5. Diff	ferentiate foreign agent COA with Co-located COA in mobile IP.
	w does VANET differ from MANET?
7. Illus	strate the need to introduce WAP.
8. Dra	aw the basic transaction of WTP class 0.
9. Wh:	at is meant by microkernel operating system?
	t the constraints faced by mobile operating system.
	PART B — (5 × 13 = 65 marks)
=01 (dd	Explain the GPRS architecture with a neat sketch. (13
11. (a)	Or
(b)	the frequency benning spread spectru

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12.	(a)	Discuss how the automatic, worldwide localization of users is provided in GSM.	
		Or	
	2.5	20	
	(b)	(i) Describe the UMTS core network together with respect to a 30 RNS and a 2G BSS. (6)	do
		(ii) Explain in detail about generic routing encapsulation. (7)	0
13.	(a)	(i) Explain the AODV protocol with a neat graph and list the advantages. (7)	Ago biorbuog not gondroid
		(ii) Explain the Dynamic host configuration protocol. (6)	2
		Or	6
	(b)	(i) Differentiate MANET with NANET and explain. (7)	d
	(0)	To provide the second of the s	3
		(ii) Discuss mobile security. (6)	-
14.		Explain the various classes in wireless transaction protocol, how does it improve the higher layer performance.	2
		Or	-
	(b)	What is the fundamental difference of WML compared to HTML? Write a WML script to design a page for online food ordering system.	. 6
15.	15. (a)	Compare Monolithic design versus microkernal design of an operating system.	
		Or	9
	(b)	Explain any three popular mobile operating systems with its software protocol stack.	-
		PART C — $(1 \times 15 = 15 \text{ marks})$	•
16.	(a)	Explain the principal functions of the mobile operating system. Discuss how an example application can be implemented on a mobile device and write the effectiveness of system services.	
		Or	
	(b)	Discuss the architecture of Android operating system. Briefly identify the possible reasons to improve its market share compared to its peers.	
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