Roll No.:....

## 322731(33)

## B. E. (Seventh Semester) Examination, Nov.-Dec. 2021

(New Scheme)

(CSE Engg. Branch)

## **MOBILE COMPUTING & APPLICATION**

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt any two parts from (b), (c) & (d) from each unit. All questions carry equal marks and part (a) from each unit is compulsory having 2 marks. Draw the labeled diagram to support your answer.

## erantilaru şisan rentinle/Unit-I zatran marson bir 2 akt

 (a) In hexagonal geometry i and j are the two nonnegative integers used to find the nearest co-channel neighbors of a particular cell. If i = 2 and j = 2 then

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	[2]				[ 3 ]	
	what is the value of Cluster Size (N) and Co-channel			(c)	Explain Bluetooth and its type also compare it with	1
	Reuse Ratio (Q).	2			wireless LAN.	7
	(b) Explain Direct Sequence Spread Spectrum (DSSS)				Explain the phases of Elimination-yield non-	
	systems using suitable example.	7			preemptive priority multiple access (EY-NPMA)	)
	(c) Explain the Elements of Cellular System Design.	7			access scheme used in HYPERLAN 1.	7
	(d) Compare SDMA, TDMA, FDMA and CDMA				Unit-IV	
	mechanisms.	7	4.	(a)	Define Mobile Ad-hoc Networks (MANET).	2
	Unit-II			(b)	Explain how the communication between correspon-	-
2.	(a) Write the services offered by GMS.	2			dent host and mobile host takes place in Mobile IP with the help of diagram.	7
	(b) Explain the functional architecture of a GSM System.	7		(c)	Compare the various classical TCP improvement	t
	(c) Explain PACS system architecture.	7			approaches for mobility with advantages and disadvantages.	7
	(d) Explain DECT System architecture reference model.	7			auvanages.	/
	Unit-III			(d)	Explain how IP address assignment in an organization can be done automatically using the Dynamic Host	
3.	(a) What do you understand by hidden node problems				Configuration Protocol (DHCP).	7
	in Wireless Networks?	2			Unit-V	
	(b) Explain the components required to design a wireless		5	(a)	Define WAP gatway.	2
	LAN for 50 users base on IEEE 802.11 standard.	7	<b>U</b> 4	(4)	Denie III Burraj.	_
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(b) Explain Wireless Application Protocol (WAP).	7
(c) Explain various 3G Wireless Operating System for 3G handset.	7
(d) Compare W-CDMA and CDMA 2000.	7
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