WICSE/WCTA/MCIT-204(F)

M.	E./M. Tech. (Second Semester)
	EXAMINATION, Oct., 2009
-	MODEL

MOBILE COMPUTING

(Elective-II)

Time: Three Hours

Maximum Marks: 100

Minimum Pass Marks: 40

Note	4	Attempt	anv	five	questions.
4			way.	3226	questions.

(a) Explain the limitations of Conventional Mobile System?

How are they overcome by cellular system?

(b) Explain the frequency hopping and direct sequence spread spectrum.

2. (a) What is the difference between MIMO and SIMO radio channel?

(b) Explain the two kinds of cell splitting and differentiate them.

3. (a) Write a short note on Mobile to Mobile Propagation.

(b) State the merit of point to point model and give general formula of point to point model.

(a) During a busy hour, the number of cells per nour θ_i for each of 10 calls is 2000, 1500, 3000, 500, 1000, 1200, 1800, 2500, 2800 and 900. Assume that 60% of the car

		phones will be used during the busy period and that or	ıe
		call is made per car phone. Find out the total numb of customer in the system.	er 8
	(b)		12
5./	(a)	Explain the fixed channel assignment.	8
/	(b)	Write a short note on the Frequency Management ar	ıd
	. ,		12
6.	(a)	components of location management? What are the	
	(b)	How do you reduce the dropped call rate and explain	٠.
ā	200	San and the fermion of facilities that	
7.	(a)	- [[[[[[[] [[] [] [] [] [] [] [] [] [] []	10
3	(b)	Explain in detail protocol architecture of GSM.	LÜ
-8:	Wri	te short notes on any four of the following:	29
<u> </u>	L(1)	Soft and hard handoff	
ė į	(ii)	Mobile IP	
	(iii)	Design of a Directional antenna system	
,	(iv)	Channel Assignment	
÷	(v)	CDMA	

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