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Ro	ii No	Total Pages	: 2		
E	xam. 610	Code 891	8912		
BT-8/M-11					
MOBILE COMMUNICATION					
		IT-454			
Time: Three Hours] [Maximum Marks: 100					
No		Attempt five questions in all, selecting at least one question each Unit. All questions carry equal marks.	ion		
UNIT-I					
1.	(a) (b)	of an example.	10		
		with each cell having a radius of 5 km <sup>2</sup> . If there a 1000 radio channels available for handling the traff	are		
2.	(a)	What is Cell-splitting? How does it improve to capacity of the system?	the		
	(b)		. •		
	(2)	their salient features.	5		
	(c)	Discuss DQPSK and its performance.	5		
	UNIT-II				
3.	(a)	,	lio		
		Communication. How do you determine cell s			
		transmitter power in a cellular system ? Illustrate.			
	(b)	What is Tilting effect? Discuss.	8		

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4.	(a)	radio communication system? Explain in brief. 8
	(b)	Derive the expression for selection diversity
	_	improvement. —12
		•
		UNIT-III
5.	(a)	What are various services offered by GSM ?
		Discuss those. http://www.kuonline.in 10
	(b)	What do you understand by Speech coding ? Explain
		the working of a typical speech encoder.
6.	(a)	Explain the concept of Frequency Hopped Multiple
		Access technique.
	<b>(b)</b>	Briefly mention the use of advanced intelligent
		network concept in PCS. — 5
	(c)	Enlist important features of UMTS.
	=	, . <b></b>
		UNIT-IV
7.	(a)	With the help of block diagram, discuss Satellite
		system architecture.
	(b)	Write brief notes on LEO and MEO systems.
8.	Wri	ite brief notes on the following:
	(a)	VSAT.
	(b)	Iridium.
	(c)	GPS information. 7+7+6

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