Roll No.

Total Pages: 03

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May 2024

B.Tech. (ENC) (Sixth Semester)
Mobile Communication (ECP-601)

Time: 3 Hours]

[Maximum Marks: 75

Note: It is compulsory to answer all the questions (1.5 marks each) of Part A in short. Answer any *four* questions from Part B in detail. Different subparts of a question are to be attempted adjacent to each other.

Part A

(a)	What is blocked call delay system?	1.5
(b)	Why we go for 3G?	1.5
(c)	Compare Wi-Fi and Wi-max.	1.5
(d)	Define GOS.	1.5
(e)	What do you mean by AMPS ? Writes	its
	standards.	1.5
(f)	What is IEEE 802.11 standard?	1.5
(g)	What are the advantages of Digital technic	ques
	in cellular Systems ?	15

	(h)	What is the significance of Frequency reuse	
		concept in Cellular system?	
	(i)	Compare Cellular telephony with cordless	
		telephony. 1.5	
	(j)	Define Micro cell zone concept. 1.5	
		Part B	
2.	(a)	Compare the different wireless communication	
		system. 5	
	(b)	Explain in detail specification and working of	
		GSM. 10	
3.	(a)	Why do we need cell splitting and how can it	
		be implemented? 7.5	
	(b)	What do you mean by WLL and explain in	
		detail its architecture. 7.5	
4.	(a)	Write a note on co-channel interference and	
		how does it affect the cellular system? How	
		to reduce CCI ? 7.5	
	(b)	Compare analog cellular system over digital	
		cellular system. 7.5	

5.	(a)	What do you mean by CDMA? Compare its performance with TDMA. 7.5
	(b)	What do you mean by space division multiple
		access technique? Explain it with feature,
		application using appropriate figure. 7.5
5.	a)	Explain the architecture of ISDN. How is it
		different from other technologies? 7.5
	(b)	What do you mean intelligent cell? Why it
		is needed and what are different methods to
		achieve intelligent system? 7.5
7.	(a)	Explain the different hand off strategies used
		in wireless communication. 7.5
	(b)	What are performance criteria of cellular
		system? Explain in detail. 7.5
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