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 ? Write	s its
	standards.	1.5
(f)	What is IEEE 802.11 standard?	1.5
(g)	What are the advantages of Digital techni	ques
	in cellular Systems ?	1.5

	(h)	What is the significance of Frequency reuse		
		concept in Cellular system ? 1.5		
	(i)	Compare Cellular telephony with cordless		
		telephony. 1.5		
	(j)	Define Micro cell zone concept. 1.5		
		Part B		
2.	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 c		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		
		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	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