No. of Printed Pages : 4 Roll No		121063/031063		h)	What is the main difference between 3G and 4G cellular telephone system?	
6th Sem. / ECE Subject : Wireless & Mobile Communication			i)	i)	Advance mobile phone system (AMPS) is example of generation cellular telephone system.	
Гime : 3 Hrs.		M.M.: 100		j)	What is cell cluster?	
SECTION-A				k)	Define range.	
Note: Very Short Answer type questions. Attempt any				l)	CDMA stands for	
	15 parts. (15x2=30)			m)	What is the need of multiple access	
Q.1 a)	Paging system is a	one-way personal			technique in wireless communication?	
	wireless messaging system. (True/False)			n)	GPS stands for	
b)	What is difference			o)	What is the use of Wi-Fi?	
	communication and wireless communication?			p)	What is the function of base station controller (BSC)?	
c)	What is the need of wireless communication?			q)	What is full form of SIM?	
۹/		twoon fraguency and		r)	What is full of GSM?	
d)	wavelength?	hat is the relation between frequency and avelength?		SECTION-B		
e)	PSTN stands for		Note: Short answer type questions. Attempt any ten			
f)	Cordless telephone	system has limited	parts 10x4=40			
•	range. (True/False)	•		i)	What are the advantages and	
g)	Define Cell.				disadvantages of wireless communication?	
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- Explain the frequency spectrum used for wireless communication.
- Explain the working of paging system.
- iv) What are disadvantages of cordless telephone system?
- Explain how a call is initiated in cellular telephone system.
- vi) Write a short note on "3G cellular systems".
- vii) What are the limitations of First generation (1G) cellular systems?
- viii) Write a short note on "Cellular concept".
- ix) What is cell splitting? What is the need of cell splitting?
- How interference can be reduced by controlling power?
- xi) What is spread spectrum multiple acess (SSMA)?
- xii) Write comparison between FDMA and CDMA.
- xiii) Write a short note on "GPRS".
- xiv) What is Bluetooth? Write its application.

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xv) Explain the process of Hand-off.

## **SECTION-C**

- Note:Long answer type questions. Attempt any three questions. 3x10=30
- Q.3 Explain in detail, comparison of paging system, cordless system and cellular system.
- Q.4 With the help of suitable diagram, explain cochannel and adjacent channel interference.
- Q.5 What is Time Division Multiple Access? Explain with the help of suitable diagram.
- Q.6 What is GSM? Explain the architecture of GSM with the help of suitable diagram.
- Q.7 Draw and explain basic block diagram of digital and data communication system.