

Wireless Communication Wireless Communication

Max. Marks: 100

Note: Answer any FIVE full questions, selecting at least TWO full questions from each part.

		$\underline{PART - A}$
1	a.	Discuss the evolution of wireless radio systems. (10 Marks)
	b.	Discuss the characteristics of 1G, 2G, 3G and 4G networks. (10 Marks)
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2	-	Describe and should of high discuss of severe Allala system and souls the
2	a.	Draw the neat sketch of block diagram of common cellular system and explain the
		Base Station System (BSS) components. (10 Marks)
	b.	Explain a mobile originated call in a cellular network with a neat flow diagram. (10 Marks)
3	a.	Explain mobility management for the following:
5	а.	
		i) Location management
		ii) Location updating. (10 Marks)
	b.	Describe the cell fundamentals in detail. (10 Marks)
4	a.	With a neat GSM network architecture, explain the Network Switching System (NSS).
		(10 Marks)
	b.	Draw and describe the structure of TDMA frame, multiframe, superframe and hyperframe.
	U.	
		Specify their time lengths. (10 Marks)
		PART - B
5	a.	Explain with neat diagrams GSM Inter-MSC handover and Intra-BSC handover. (10 Marks)
	b.	What is Location Area (LA) in a cellular system? What is location updating? Explain the
	υ.	
		basic steps involved in location updating (Idle Mode). (10 Marks)
6	a.	Write explanatory notes on:
		i) IS – 95 CDMA forward channels
		ii) IS – 95 CDMA (10 Marks)
	b.	Describe CDMA system operation supporting TEM different forms of registration.
	U.	(10 Marks)
		(10 Marks)

a. Explain the following:

i) WPAN characteristics

b. Discuss various pathless models.

ii) WPAN power levels and coverage area

a. Discuss various coding techniques used in wireless communication.

iii) WPAN network lifespan.

(10 Marks)

(10 Marks)

(10 Marks)

b. List the features of IEEE802.11x technologies.

(10 Marks)

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