

- Q.33 Write a short note on bluetooth?
 Q.34 Compare GSM and COMA system.
 Q.35 Explain features of UMTS.

Section-D

Note: Long answer Questions. Attempt any two Questions out of three Questions. (2x10=20)

- Q.36 Distinguish between TDMAFDD and TDMA TDD.
 Q.37 Explain various fundamentals of cellular network planning.
 Q.38 Explain the GSM and its architecture.

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6th Sem, Branch : Eltx. Engg.

Subject : Wireless and Mobile Communication/
 Digital & Data Communication Engg.

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory. (10x1=10)

- Q.1 _____ manages the switching function in GSM.
 a) BSS b) NSS
 c) OSS d) MSC
- Q.2 The process of subdividing a congested cell into smaller cells is called....
 a) Sectoring b) Cell splitting
 c) Repeaters d) Micro Cell technique
- Q.3 All users in CDMA system use _____ carrier frequency.
 a) Same b) Two
 c) Different d) None
- Q.4 Time division duplexing uses _____ to provide both a forward and reverse link.
 a) Time b) Frequency
 c) Time & Frequency d) None
- Q.5 UMTS is also known as _____
 a) GSM b) WCDMA
 c) GPRS d) IS-95

- Q.6 GSM uses a carrier separation of _____ Khz.
 a) 300 b) 100
 c) 30 d) 200
- Q.7 Interference on voice channels causes _____
 a) Queuing b) Crosstalk
 c) Missed Calls d) None
- Q.8 Which of the following memory device stores information such as subscriber's identification number in GSM.
 a) SIM b) SMS
 c) Flip Flop d) Register
- Q.9 Actual radio coverage of a cell is called _____
 a) Footprint b) Finger print
 c) Matrix d) Imprint
- Q.10 Which modulation technique is used by GSM?
 a) QPSK b) GMSK
 c) GFSK d) BPSK

Section B

Note: Objective type Questions. All Questions are compulsory. (10x1=10)

- Q.11 Write full form of WCDMA.
 Q.12 Define BSC.
 Q.13 Write full form of PSTN.
 Q.14 Write full form of UMTS.
 Q.15 Write full form of HSPA.

- Q.16 What is the term used by ITU for a set of global standards of 3G systems?
 Q.17 Multiple access schemes are used to allow _____ mobile users to share simultaneously a Radio spectrum.
 Q.18 What are cochannel Cells.
 Q.19 Condition for Handoff is _____.
 Q.20 What is a cell in cellular system?

Section-C

Note: Short answer type Questions. Attempt any twelve Questions out of fifteen Questions. (12x5=60)

- Q.21 Explain Fading.
 Q.22 Write a short note on Doppler effects.
 Q.23 Explain advantages and applications of Wireless communication.
 Q.24 Differentiate between 1G and 2G.
 Q.25 Explain frequency reuse.
 Q.26 Explain cell site structure.
 Q.27 Explain Adjacent channel interference.
 Q.28 Write a note on WCDMA.
 Q.29 Explain atmospheric effect in wireless communication.
 Q.30 Give an introduction to various Multiple Access techniques.
 Q.31 Explain frequency spectrum used in Wireless communication.
 Q.32 Write a note on EDGE?