

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

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Roll No.....

6th Sem, Branch : Eltx. Engg.

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

Time : 3 Hrs.

M.M. : 100

Section-D

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

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

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

- Q.1 _____ manages the switching function is 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 uses _____ 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) W CDMA
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? (3) 181063/171063/121063