

- Q.30 Explain any one technique used for increasing cell capacity.
 Q.31 Explain the term IMEI in brief.
 Q.32 Calculate wavelength for a signal of 150 KHZ.
 Q.33 Compare in 5 points the AMPS & GSM systems?
 Q.34 Draw frequency spectrum indicating all frequencies and wavelengths.
 Q.35 Write main concept of Frequency Reuse.

Section-D

- Note:** Long answer Questions. Attempt any two Questions out of three Questions. (2x10=20)
- Q.36 Draw a cellular system and show all the process happenings if we call from mobile to mobile.
 Q.37 What is Bluetooth technology? Explain operation of Bluetooth system.
 Q.38 Write short note on
 i) Doppler Effect
 ii) Repeater for Range Extension

No. of Printed Pages : 4
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6th Sem,
Branch : Elect & Eltx Engg.
Subject : Wireless and Mobile Communication

Time : 3 Hrs. M.M. : 100

SECTION-A

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

- Q.1 The capacity of cellular system is increase by :
 a) Splitting
 b) Sectoring
 c) Mircocell zone concept
 d) All
- Q.2 How the number of base stations are increased in order to increase capacity?
 a) By sectoring b) By splitting
 c) By microcell d) None
- Q.3 All users in CDMA system uses _____ carrier frequency?
 a) Same b) Two
 c) Different d) None
- Q.4 The world first cellular system to specify digital modulation _____
 a) AMPS b) GSM
 c) CDMA d) FDMA

Q.5 In CDMA all users can transmit _____.

- a) On the same frequency
- b) At the same time
- c) Both A & B
- d) None

Q.6 Which sub system supports the operation and maintenance of GSM

- a) BSS
- b) MSS
- c) OSS
- d) None

Q.7 Large cells are called

- a) Mini cells
- b) Micro cells
- c) Macro cells
- d) None

Q.8 In _____ the available bandwidth is divided into frequency bands

- a) FDMA
- b) CDMA
- c) TDMA
- d) None

Q.9 Voice frequencies are in the range

- a) 300 KHz-3 MHz
- b) 3 KHz-30 KHz
- c) 300 Hz-3KHz
- d) None

Q.10 2 G cellular network uses :

- a) TDMA/FDD
- b) CDMA/FDD
- c) Digital modulation formats
- d) None

Section B

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

Q.11 Frequency range of UHF is _____.

Q.12 Expand IMEI.

Q.13 Write range of wi-fi.

Q.14 Expand GPRS.

Q.15 Write the frequency band of GSM system.

Q.16 EIR stands for _____.

Q.17 GSM supports 3 G (T/F)

Q.18 The range of cordless telephone is _____.

Q.19 AMPS system is used in India (T/F)

Q.20 What is function of HLR?

Section-C

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

Q.21 What are features of CDMA?

Q.22 Explain geographical effect on propagation.

Q.23 Why are hexagon used as basic cell shapes.

Q.24 Explain the working of FHSS.

Q.25 Explain adjacent channel.

Q.26 Compare the feature of 2G & 3G system.

Q.27 What are the application of RFID.\

Q.28 Explain the principle of GPRS technology.

Q.29 What are application and disadvantage of pages.