

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Draw and explain the architecture of UMTS. 3+5

Q.24 Write short note on :

a) WCDMA and

b) GPRS 4+4

Q.25 Write a short note on :

a) Cellular network systems and

b) Concept of new radio technology 4+4

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Roll No.

5th Sem / ECE, ECE(For Speech and Hearing Impaired)

Subject : Wireless & Mobile Communication

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 In cellular network, adjacent cells operates on different frequencies to avoid _____.

a) Crosstalk

b) Reflection

c) Refraction

d) Thermal noise

Q.2 In _____ different frequency components affected differently.

a) Fast fading

b) Slow fading

c) Flat fading

d) Selective fading

Q.3 _____ is the process of subdividing a congested cell into smaller cells.

a) Cell splitting

b) Coverage zone approaches

c) Cell sectoring

d) Power level

- Q.4 What is the full form of MIN in wireless communication?
- Multiple identification number
 - Mobile identification number
 - Multipath identification number
 - Mean identification number
- Q.5 What changes GPRS need to acquire while upgrading itself from GSM?
- A whole new base station
 - New transceiver at base station
 - New channel cards
 - New packet overlay including routers and gateways
- Q.6 Which of the following is a CDMA standard of second generation network?
- IS-95
 - IS-136
 - ETACS
 - EDGE

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Define fast fading.

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- Q.8 Expand WCDMA.
- Q.9 Expand GPRS.
- Q.10 WiFi Hotspots typically cover a distance of _____
- Q.11 Expand mMTC.
- Q.12 Define interference.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 List any four features of LTE.
- Q.14 List any four advantages of Bluetooth Technology.
- Q.15 List any four features of 4G.
- Q.16 What is the purpose of SGSN?
- Q.17 List any four advantages of CDMA.
- Q.18 List any four features of TDMA.
- Q.19 Briefly explain the term frequency Reuse.
- Q.20 Write a short note on power control for reducing interference.
- Q.21 List any four advantages of wireless communication.
- Q.22 How does fading affect propagation of signals.

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