

B.E. Sixth Semester (Electronics & Telecommu., Electronics Engg.) (CGS)
10618 : Elective - II : Introduction to Wireless Technology
6 FEXT 05 / 6 FEXN5

P. Pages : 2

Time : Three Hours



AU - 2778

Max. Marks : 80

- Notes : 1. Answer **three** question from Section A and **three** question from Section B.
2. Assume suitable data wherever necessary.
3. Use of pen Blue/Black ink/refill only for writing the answer book.

SECTION - A

1. a) Explain LAN, MAN & WAN in detail. 7
b) Distinguish between OSI model & TCP/IP model. 6

OR

2. a) Write a note on: 7
i) Router ii) Repeater
iii) Switch iv) Gateway
v) Access point
b) Discuss Network topologies in brief. 6
3. a) Compare TDMA, FDMA & CDMA. 6
b) What is need of spread spectrum technology Explain Direct sequence spread spectrum in brief. 7

OR

4. a) Define Antenna? Explain any one type of Antenna in detail along with it's characteristics. 7
b) Write a note on WWW model in WAP in detail. 6
5. a) Explain WAP architecture component in detail? 7
b) Explain general packet format of bluetooth in detail. 7

OR

6. a) Explain working principle of Bluetooth with functional component. 7
b) Explain (3G) third generation technology in brief. 7

SECTION - B

7. a) Draw & explain the Architecture of digital cellular telephony. 7
b) Explain in brief cellular structure and concept of frequency reuse? 6

OR

8. a) Explain Global system for mobile communication (GSM) in detail with cell structure. 7
b) Draw SM5 Network infrastructure & explain in brief. 6
9. a) Explain the concept of microcell Roaming related to WLAN. 7
b) What is microwave LAN? Explain various factors affecting performance of microwave system. 7

OR

10. a) Explain IEEE 802.11, 802.11a, 802.11b LAN standards in detail. 7
b) Explain the criteria for selecting a WLAN. 7
11. a) Explain the following. 6
i) Satellite footprint ii) Path diversity
b) What are satellite control & user segments? Explain. 7

OR

12. a) Write a note on Globstar architecture in detail. 7
b) Differentiate between LEO, MEO & GEO satellite. 6

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