



C14-CM-604

4732

BOARD DIPLOMA EXAMINATION, (C-14)
OCT/NOV—2018
DCME—SIXTH SEMESTER EXAMINATION
MOBILE COMMUNICATION

Time : 3 hours]

[*Total Marks* : 80

PART—A

3×10=30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Define cell in cellular system.
2. Write a short note on hidden and exposed terminals.
3. List out the GSM mobile services.
4. What is the role of Base Station Controller (BSC) in GSM?
5. Write the applications of satellite systems.
6. What is cyclic repetition of data?
7. What is Piconet in Bluetooth technology?

- * 8. List out any three signalling commands in Bluetooth.
- 9. Define encapsulation.
- 10. Write the features of 3G.

PART—B

10×5=50

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

- 11. Explain TCP/IP protocol architecture in mobile communications.
- 12. Define handover and explain the types of handover in GSM.
- 13. Explain the protocol architecture for signalling in GSM.
- 14. Explain the routing mechanism in satellite system.
- 15. Draw and explain Digital Video Broadcasting (DVB).
- 16. (a) Explain ad hoc networks.
(b) Explain infrastructure networks.
- 17. (a) Explain the protocol architecture in IEEE 802.11 Wireless LAN.
(b) Explain Quality of Service (QoS) in Bluetooth.
- * 18. Explain the procedure of IP packet delivery in Mobile IP.
