



C14-CM-604

4732

BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL—2018
DCME—SIXTH SEMESTER EXAMINATION
MOBILE COMMUNICATIONS

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. Draw the simplified reference model in mobile communication.
2. Write about need for protocol architecture.
3. List the services offered by GSM.
4. Write a short note on handover in GSM.
5. List the applications of satellites.
6. State the need for cyclic repetition of data.
7. Differentiate between infrared and radio transmission.

- * 8. State the applications of Bluetooth.
- 9. Write about mobile transport layer.
- 10. List the features of 4G.

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. (a) Explain UDP protocol.
(b) Explain near and far terminal.
- 12. (a) Draw and briefly explain GSM architecture.
(b) Explain new data services in GSM.
- 13. (a) Explain about mobile originated call (MOC).
(b) List and explain different types of handover in GSM.
- 14. Explain the characteristics of (a) GEO, (b) LEO and (c) MEO.
- 15. Explain about multimedia object transport protocol.
- 16. Explain adhoc wireless networks with example.
- 17. (a) Draw and explain the system architecture of IEEE802.11.
(b) Explain piconets and scatternets.
- * 18. (a) Explain tunnelling and encapsulation.
(b) Explain IPv6.
