



C14-CM-604

4732

BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL—2017
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. List the applications of mobile communications.
2. State the need of protocol architecture.
3. Write about GSM.
4. List the new data services offered in GSM technology.
5. List the advantages of GEO.
6. Define broadcast systems.
7. Differentiate between infrastructure and adhoc networks.
8. What are the Bluetooth standard documents?
9. What is time-out freezing?
10. List the features of 2G.

*

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 internet protocol.
(b) Explain motivation for specialized MAC.
- 12.** (a) Explain about mobile switching centre(MSC).
(b) Draw the protocol architecture for signalling in GSM networks.
- 13.** (a) Explain about mobile terminated call (MTC).
(b) Discuss the importance of handover in GSM.
- 14.** Explain the concept of routing in satellite systems.
- 15.** Draw and explain about digital audio broadcasting (DAB).
- 16.** Explain infrared and radio transmission.
- 17.** (a) Draw and explain the protocol architecture of IEEE802.11.
(b) Discuss various usage models of Bluetooth.
- 18.** (a) Explain the concept of agent advertisement and discovery.
(b) Explain dynamic host configuration protocol.

*