



C14-CM-604

4732

BOARD DIPLOMA EXAMINATION, (C-14)
OCT/NOV—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 communication.
2. State the concept of frequency reuse in cellular systems.
3. Write a short note on GSM.
4. Write a short note on new data service.
5. List the advantages of LEO.
6. List the applications of satellites.
7. What is frequency hopping in Bluetooth?
8. Write about L2CAP channels in Bluetooth.
9. Write about TCP slow start mechanism.
10. List the features of 4G.

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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 transmission control protocol.
(b) Explain about hidden and exposed terminals.
12. (a) Explain the following (i) HLR and (ii) VLR.
(b) Explain about Radio interface.
13. (a) Explain about localization in GSM networks.
(b) List and explain the security measures utilized in GSM.
14. Explain different types of handover in satellite systems.
15. Draw and explain digital video broadcasting with neat diagram.
16. Explain infrastructured-based wireless networks with example.
17. (a) Explain about MAC management of WLAN.
(b) Explain the protocol architecture of Bluetooth.
18. (a) Explain about the IP packet delivery.
(b) Explain dynamic host configuration protocol.
