



C09-CM-606B

3740

BOARD DIPLOMA EXAMINATION, (C-09)
APRIL/MAY—2015
DCME—SIXTH SEMESTER EXAMINATION
MOBILE COMPUTING

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 *four* simple sentences.

1. Explain FDMA. 3
2. Define cell and list any two advantages of cellular systems. 1+2=3
3. What are the services provided by GSM? 3
4. Explain localization and calling in GSM. 3
5. List the advantages of broadcast systems. 3
6. List the applications of satellites. 3
7. Explain Bluetooth technology. 3
8. What is a scatternet? List its advantages. 1+2=3

- * 9. Name the requirements of Mobile IP. 3
10. Explain congestion control in TCP. 3

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) State the need for protocol architecture. 4
 (b) Explain TCP/IP protocol architecture. 6
12. Explain in detail the protocol architecture in GSM. 10
13. (a) Explain GSM security. 6
 (b) What are the reasons for handover in GSM? 4
14. (a) Explain localization and handover mechanism in satellite system. 6
 (b) Compare between DAB and DVB. 4
15. Explain LEO, MEO and GEO and list their advantages and disadvantages. 10
16. (a) Explain protocol architecture of WLAN. 5
 (b) Explain MAC management in WLAN. 5
- * 17. (a) Explain the formation of Bluetooth piconet. 5
 (b) Explain Bluetooth security. 5
18. Discuss the features of various generations of wireless technology. 10
