



C09-CM-606 B

3740

BOARD DIPLOMA EXAMINATION, (C-09)
OCT/NOV—2014
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 *five* simple sentences.

1. List out the advantages of cellular systems.
2. Explain the need for protocol architecture.
3. Define GSM. State its features.
4. Write the applications of GPRS.
5. What are the different types of handover in satellite system?
6. Write the advantages of broadcast system.
7. Define Piconet.
8. What is frequency hopping.

* 9. List the entities in mobile IP.

10. What is tunnelling?

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 the simplified reference model for wireless communication with a neat diagram.

12. List the services provided by GSM and explain them briefly.

13. Explain the GSM architecture in detail with main elements and their functions.

14. (a) What are the advantages of GEO? 4

(b) Explain different kinds of broadcast system. 6

15. Explain the digital audiobroadcasting with DAB sender and DAB receiver diagrams.

16. Explain the infrastructure and ad hoc networks.

17. Explain the Bluetooth protocol architecture.

* 18. Explain the following in mobile IP : 3+3+4

(a) Agent discovery

(b) Agent advertisement

(c) Agent registration
