

3740

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2013

DCME—SIXTH SEMESTER EXAMINATION

MOBILE COMPUTING

Time : 3 hours]

[Total Marks : 80

PART—A

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. Define mobile computing. 3
2. What are different services offered by GSM? 3
3. Explain the concept of roaming. 3
4. Differentiate between DAB and DVB. 3
5. Explain routing in satellites. 3
6. Compare between infrared transmission and radio transmission. 3
7. What is a piconet? List any two of its benefits. 1+2
8. List any three advantages of cellular systems. 3
9. Name the entities of Mobile IP. 3
10. List the features of 3G. 3

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PART—B

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and straight to the point and the criterion for valuation is the content but not the length of the answer.

11. (a) Compare between SDMA and CDMA. 5
(b) State the need for specialized MAC for wireless networks. 5
12. Explain the following with the help of a neat sketch in GSM :
(a) Mobile Terminated Call 5
(b) Mobile Originated Call 5
13. (a) Explain security provided by GSM. 5
(b) Explain GSM radio interface. 5
14. Explain DAB in detail with a neat diagram. 6+4
15. (a) Explain handover in satellite systems. 5
(b) Explain different handover scenarios in satellite systems. 5
16. (a) What are the differences between adhoc-based and infrastructure-based networks in WLAN? 5
(b) What are the future developments of IEEE 802.11 WLAN? 5
17. (a) Explain the formation of Bluetooth scatternet. 5
(b) Explain L2CAP packet format. 5
18. Explain multimedia object transport protocol. 10
