C09–CM–**606 B**

3740

BOARD DIPLOMA EXAMINATION, (C–09)

OCT/NOV—2016

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) Answer should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Why is user datagram protocol needed?

2. State the advantages of layering in TCP/IP architecture.

3. Write how localization of users provided by GSM.

4. List the new data services provided in GSM.

5. List the specifications of digital video broadcasting system.

6. What do you mean by ISL routing for satellite network?

7. List various usage models defined in Bluetooth profile documents.

8. List the security services provided by Bluetooth.

9. What is reverse tunneling?

10. Define the terms profile and configuration with respect to J2ME.

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PART—B   10×5=50

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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. Compare various media access methods—S/T/F/CDMA.

12. Draw the block diagram of GSM architecture and explain.

13. Explain about GSM frame format in detail.

14. Explain about cyclic repetition of data in a broadcast system.

15. Explain about GEO, LEO and MEO satellites.

16. Explain about logical link control and adaptation protocol.

17. Explain MAC management in wireless LAN.

18. Explain about TCP slow start mechanism.

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