C09–CM–**606 B**

3740

BOARD DIPLOMA EXAMINATION, (C–09)

MARCH/APRIL—2017

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. What is the principle of frequency reuse in the context of a cellular network?

2. What is medium access control?

3. List the new data services provided by GSM.

4. What are MTC and MOC in GSM network?

5. List the characteristics of LEO satellites.

6. Define broadcast system. Give example.

7. What error correction schemes are used in Bluetooth baseband?

8. Write the classification of wireless LANs based on transmission technique used.

9. List various generations of wireless technology.

10. List the three functional entities of mobile IP.

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PART—B

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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 internet protocol.

12. Explain about GSM frame format in detail.

13. Explain different types of mobile services offered by GSM with examples.

14. Explain the mechanisms for localization of users in a satellite system.

15. Explain multimedia object transport protocol.

16. Explain about Bluetooth protocol architecture in detail.

17. Explain about logical link control and adaptation protocol.

18. Explain the features of 4G wireless technology.

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