FACULTY OF ENGINEERING

B.E. 4/4 (CSE) I - Semester (Suppl.) Examination, May / June 2017

Subject : Mobile Computing (Elective – I)

Time : 3 Hours   Max. Marks: 75

Note: Answer all questions from Part-A and answer any five questions from Part-B.

PART – A (25 Marks)

1 Write about a Cellular Network.   (2)
2 Draw MSK for the bit stream 1 0 1 0 0 1 0.   (3)
3 Write the basics of Satellite systems.   (3)
4 What is Localization?   (2)
5 Differentiate Adhoc and Infrastructure Networks.   (2)
6 Explain the functionalities of Link Manager of Bluetooth.   (3)
7 What is DHCP? State its functionality.   (2)
8 List various applications of Mobile Adhoc Networks.   (3)
9 Differentiate WAP 1.x and 2.x.   (3)
10 Enlist the features of Symbian Operating system.   (2)

PART – B (50 Marks)

11 (a) What is Multiplexing? Discuss different types of Multiplexing.   (5)
   (b) What is Spread spectrum? Write about the techniques used to spread a
       spectrum.   (5)

12 Describe the functional Architecture of GSM system, with the help of a diagram.   (10)

13 Explain Bluetooth security block diagram.   (10)

14 Discuss Tunneling and Encapsulation mechanisms of Mobile IP.   (10)

15 Discuss in detail Protocol Architecture for WAP.   (10)

16 (a) Explain briefly about TETRA frame structure.   (5)
   (b) Compare and contrast Traditional TCP and classical TCP.   (5)

17 Write short notes on the following: (10)
   (a) HIPERLAN
   (b) DVB
   (c) Piles Systems

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