BB-585

M.Tech. EXAMINATION, May 2017

(Second Semester)

(B. Scheme) (Main & Re-appear)

(CSE)

CSE-554-B

MOBILE COMPUTING

Time : 3 *Hours*]   [*Maximum Marks :* 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. (a) Explain the working principle and frame format of IEEE 802.11a standard. **10**

   (b) What is meant by wearable computing? **5**

2. (a) What is Mobile Computing? What are the challenges faced by mobile computing? **6**

   (b) Describe briefly different layers of Bluetooth protocol stack. Draw the frame format of Bluetooth. **9**

Unit II

3. Explain the technique used for finding routes in: **15**

   (a) TOTA

   (b) DSR.

4. (a) Describe different phases of DSDV protocol. State the advantages and limitations of DSDV. **10**

   (b) Differentiate between proactive and reactive routing. **5**

Unit III

5. (a) How Mobile IP protocol is used to facilitate communication between mobiel devices? **10**

   (b) What are broadcast disks? **5**

6. Write short notes on the following: **15**

   (a) Indirect TCP

   (b) Mobile TCP.

Unit IV

7. (a) What are the possible attacks on mobile agents? How can these attacks be prevented? **8**

   (b) What are the issues involved in design and migration of mobile agents? **7**

8. Write short notes on the following:

   (a) Agent Authentication **9**

   (b) Mobile agent communication. **6**