H306

B. Tech. EXAMINATION, May 2019

(Eighth Semester)

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

(IT, CSE)

IT454B

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) Differentiate between mobile computing and wireless networking. **7.5**

(b) Explain the adaptive clustering for Mobile Wireless Networks. **7.5**

2. (a) Discuss IEEE 802.11 in detail. **7.5**

(b) Describe the Bluetooth protocol stack with neat diagram. **7.5**

Unit II

3. (a) Discuss the pointer forwarding strategies in mobile computing. **7.5**

(b) Explain the Energy Indexing for wireless broadcast data in detail. **7.5**

4. Define mobile IP. Explain the routing mechanism in detail. **15**

Unit III

5. (a) Explain the Mobile Agent computing in detail. **7.5**

(b) Explain Mobile Agent Security requirements. **7.5**

6. Discuss the transaction processing in mobile computing environment. **15**

Unit IV

7. (a) Explain about Dynamic source routing protocol in MANETs. **7.5**

(b) Explain in detail DSDV routing algorithm for MANETS with an example. **7.5**

8. (a) Explain in detail AODV routing algorithm for MANETS. **7.5**

(b) Explain in detail Fisheys State routing algorithm for MANETS. **7.5**