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Total No. of Pages : 02

Total No. of Questions : 09

**B.Tech.(ECE) (2011 Batch E-III)**  
**B.Tech.(ETE) (2011 Onwards E-III) (Sem.-7,8)**

**MOBILE COMPUTING**

**Subject Code : BTEC-919**

**M.Code : 71924**

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

**SECTION-A**

1) Answer briefly :

- a. What is encapsulation?
- b. List any two advantages of I-TCP.
- c. List the problem related with reverse tunneling.
- d. Explain the use of broadcast control channel.
- e. Mention the different entities in mobile IP.
- f. List the various approaches for security.
- g. State hidden terminal problem.
- h. What happens to the standard TCP in case of disconnection?
- i. What is WAP gateway?
- j. List out various value added services through GSM.

**SECTION-B**

- 2) What is Handoff? What is roaming? How do you perform handoff during roaming?
- 3) How can DHCP be used for mobility and support to mobile IP? Explain.
- 4) Explain function of each layer in WAP architecture.
- 5) What is Bluetooth? Where it is used? Also describe the general format of packet and packet header in Bluetooth technology.
- 6) Explain the term mobile computing and also give any suitable live example with merit of mobile computing.

**SECTION-C**

- 7) What are MAC issues? What is Hidden node and exposed node problem? How it is resolved?
- 8) Name the main difference between ad-hoc networks and other networks. What advantages do Ad-hoc networks offer? Explain in detail by giving suitable example.
- 9) Explain dynamic secure routing in detail.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**