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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(Electronics & Computer Engg.) (2011 Onwards) (Sem.-6)**MOBILE COMPUTING**

Subject Code : BTEL-601

M.Code : 71163

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 have to attempt ANY FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt ANY TWO questions.

SECTION-A**1. Answer briefly :**

- a) Discuss the design goals of Mobile IP.
- b) What is the reason for the failure of CSMA/CD in wireless networks?
- c) What are piconet and scatternet in Bluetooth?
- d) Describe the properties of MANET.
- e) Explain the role of HLR and VLR in GSM network.
- f) Describe features of MIDP 3.0.
- g) List advantages of hoarding the data at mobile device.
- h) What are the QoS issues?
- i) Give reasons for a handover in GSM and the problems associated with it.
- j) What is basic purpose of DHCP?



**SECTION-B**

2. Explain Selective retransmission and Transaction oriented TCP.
3. Distinguish the MANETs from cellular mobile networks.
4. Explain about protocol architecture of WAP.
5. Explain Mobile TCP. How does a supervisory host send TCP packets to the mobile node and to a fixed TCP connection?
6. Describe Dynamic source routing protocol with an example.

SECTION-C

7. Explain the following protocols and platforms for mobile computing.
 - a) PalmOS
 - b) J2ME
8. Explain in detail about IEEE 802.11 MAC Data frames.
9. What are the major components of security, explain each with examples.

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.

