Sl. No.

CE1.5-R4 : MOBILE COMPUTING

NOTE :
1. **Answer question 1 and any FOUR questions from 2 to 7.**
2. **Parts of the same question should be answered together and in the same sequence.**

Total Time : 3 Hours   **Total Marks : 100**

1. (a) Bring out the limitations of mobile devices.
   (b) Describe cell in detail.
   (c) What are the different services provided by GSM ?
   (d) Difference Between Proactive & Reactive protocols.
   (e) Define Mobile agents.
   (f) State the Characteristics of a MANET.
   (g) Define Snooping TCP.   **(7x4)**

2. (a) Discuss the protocol architecture of GSM.
   (b) Explain Handoff and situations in which Handoff is triggered. What are the different types of Handoff techniques ?
   (c) Discuss about the features of IMT2000 vision.   **(6+6+6)**

3. (a) Discuss the layered architecture supported by Bluetooth technology.
   (b) What are the different types of handovers in GSM ?
   (c) Explain in detail hidden and exposed terminals.   **(6+6+6)**

4. Explain the following in detail :
   (a) J2ME
   (b) Palm OS
   (c) Information Security
   (d) ZigBee   **(4+4+4+6)**

5. (a) Discuss in detail about communication asymmetry.
   (b) Explain in detail about Code division multiple access (CDMA). **(10+8)**

6. (a) Explain about Dynamic source routing protocol in MANETs.
   (b) Explain the registration, discovery, tunnelling and encapsulation in mobile IP in detail.   **(8+10)**

7. (a) Draw a neat diagram of WAP architecture and explain in detail.
   (b) Explain the concept of push based data dissemination mechanism and focus on its advantages and disadvantages.   **(9+9)**

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