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**Elective - I : Mobile Computing**

P. Pages : 2

Time : Three Hours

**NRT/KS/19/3585**

Max. Marks : 80

- Notes :
1. All questions carry marks as indicated.
  2. Solve Question 1 OR Questions No. 2.
  3. Solve Question 3 OR Questions No. 4.
  4. Solve Question 5 OR Questions No. 6.
  5. Solve Question 7 OR Questions No. 8.
  6. Solve Question 9 OR Questions No. 10.
  7. Solve Question 11 OR Questions No. 12.
  8. Due credit will be given to neatness and adequate dimensions.
  9. Assume suitable data whenever necessary.
  10. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) Draw and explain GSM architecture in detail with proper block diagram? **8**
- b) What is the need of handover in GSM? What are possible handover scenario? **5**

**OR**

2. a) List and explain various examples of wireless communication system? **7**
- b) Explain the frequency reuse in cellular system? **6**
3. a) What is content adaption and transcoding? Classify different types of transcoding? **7**
- b) Describe three tier architecture for mobile computing? **6**

**OR**

4. a) Describe the functions of the significance of core, edge and access Network? **6**
- b) Short note on following related to design issues of mobile computing:- **7**
- i) Communication
- ii) Logging
- iii) Configuration Management.

5. a) Explain 802.11 architecture in detail? **7**
- b) Explain different types of wireless LAN? **6**

**OR**

6. a) Explain the protocol Architecture? **6**

- b) What is the need of specialized MAC in wireless communication? 7
7. a) Explain Remote Procedure call (RPC) and define features of RPL with working? 7
- b) Describe the agent TCL architecture with suitable diagram? 7

**OR**

8. a) Explain the Aglet object model? 7
- b) Explain different characteristics and security of Mobile Agent (MA). 7
9. a) Explain wireless datagram protocol in detail? 7
- b) How wireless transaction protocol works? Explain. 6

**OR**

10. a) Explain in brief wireless markup language. Define a features of WML? 7
- b) Explain a Bluetooth Protocol stack? 6
11. a) Draw and explain a detail Android Architecture? 9
- b) Explain the android activity with example? 5

**OR**

12. Short note on:- **any three.** 14
- i) Hardware tool
- ii) Android Features
- iii) State of services in android
- iv) Android SDK.

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~ Mark Twain

