

Elective - I: Mobile Computing

P. Pages : 2

Time : Three Hours



KNT/KW/16/7501

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. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) Explain localization & calling with suitable diagram. **6**
- b) Write & explain different applications of cellular communication. **7**

OR

2. 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**
3. a) Write a short note on Internet the ubiquitous network. **6**
- b) Describe three tier architecture for mobile computing. **7**

OR

4. Write short note on following related to design issues of mobile computing. **13**
 - i) Communication.
 - ii) Logging.
 - iii) Synchronization.
 - iv) Configuration Management.
5. a) Explain IEEE 802.11 standards in brief. **6**
- b) Write the difference between wireless WAN and WLANs. consider mode of operation and frequencies. **7**

OR

6. Write short note on **any two**. **13**
 - i) Protocol architecture.
 - ii) MAC Management.
 - iii) System Architecture.

7. a) What are different requirements for mobile agent system ? Explain in detail. 7
b) Explain Remote Procedure call (RPC) in detail. 7

OR

8. a) Describe the agent TCL architecture with suitable diagram. 7
b) Explain different characteristics and security of mobile agent (MA). 7
9. a) Draw & explain working of wireless application protocol model (WAP). 7
b) Explain Wireless datagram protocol in detail. 7

OR

10. a) How wireless transaction protocol works ? Explain. 7
b) What is the role of wireless Telephony application server ? What are different ways of integrating WTA server into WAP architecture. 7
11. a) What are the features of Android & explain android components in detail ? 7
b) Describe the role of Android SDK in application programming. 6

OR

12. Write a short note on **any three**. 13
- i) Hardware tools.
 - ii) Mapping applications to process.
 - iii) Android development basics.
 - iv) Android activity with example.
