15/12/2016

Q.P. Code : 621801

(3 Hours)   **[Total Marks : 100**

N.B. : (1) Question **No.1** is **compulsory**.
      (2) Solve **any four** questions from remaining.
      (3) Assume suitable **data** if **necessary** stating it **clearly**.

1. (a) What is Hand-off?   5
   (b) Describe GSM services and bearer services.   5
   (c) What is multipath fading.   5
   (d) Compare between Bluetooth and WLAN.   5

2. (a) Draw neat diagram of GSM protocol architecture and describe in details.   10
   (b) What is Mobile TCP?   10

3. (a) Describe GSM security services.   10
   (b) Draw neat diagram of WAP architecture and explain in details.   10

4. (a) List and describe channel allocation techniques.   10
   (b) Describe UMTS system architecture with different interfaces.   10

5. (a) What are Mobile Adhoc Network routing protocols? Explain in details.   10
   (b) Describe Bluetooth system architecture in details.   10

6. (a) What is CDMA? Compare between CDMA and WCDMA.   10
   (b) Describe multiple access techniques.   10

7. Write short notes (**Any Three**) :   20
     (a) Mobile IP
     (b) Wireless ATM
     (c) Mobile Agents
     (d) Threats and security in Mobile Computing