COMP/VI/CBGS/MC&C/14-12-16
Mobile Communication & Computing

Q.P. Code : 581802

(3 Hours) [Total Marks : 80

N.B. : (1) Question No.1 is Compulsory.
(2) Attempt any Three questions out of remaining questions.
(3) Make suitable assumptions whenever necessary.

1. a) Explain in short Time slot hierarchy of GSM system. 04
   b) Explain in short Wireless Local Loop Architecture. 04
   c) What are the general problems of satellite signals travelling from a satellite to a receiver ? 04
   d) Explain how Mobile originated call (MOC) work.? 04
   e) What are the characteristics of SIM? 04

2. a) List the entities of mobile IP and describe data transfer from a mobile node to a fixed node and vice versa. 10
   b) What are the modifications require to an existing GSM network to be upgraded to GPRS, Explain with the help of diagram. 10

3. a) Explain in Detail IEEE 802.11 MAC sublayer. 10
   b) Compare 3G and 4G. 10

4. a) Explain in detail Bluetooth Protocol Architecture. 10
   b) Explain in detail how Subscriber Authentication is done GSM. 10

5. a) Compare HIPERLAN 2, BLUETOOTH, IEEE 802.11. 10
   b) What are the different types of Handover in Satellite systems? Explain in Detail. 10

6. Write short notes on the following: 20
   a) Satellite orbits.
   b) Android framework.
   c) Cellular IP.
   d) Digital Certificate.