T.E Sem VI - CBGS - Computer - MCC

QP Code : 5070

(63)

(3 Hours) [Total Marks : 80

N.B.: (1) Question **1** is **compulsory**.
     (2) Attempt **any 3** questions out of the rest.

1. (a) Draw and Explain Electromagnetic Spectrum for communication. 5
   (b) Explain Hidden station and exposed station problems in WLAN 5
   (c) Explain various types of handoffs in GSM network 5
   (d) Explain GSM Frame Hierarchy 5

2. (a) Explain synchronization in 802.11 MAC management layer for both 10
      Infrastructure as well Ad-hoc WLANs.

   (b) Explain GPRS architecture in detail. Compare it with GSM architecture 10

3. (a) Compare HIPERLAN-1, HIPERLAN-2 and 802.11 W-LAN 10

   (b) Explain the functioning of I-TCP and SNOOP-TCP , giving advantages and 10
      disadvantages of both.

4. (a) Why is Mobile IP packet required to be forwarded through a tunnel. 10
      Explain minimal techniques of encapsulation of Mobile IP packet

   (b) Explain functioning of Bluetooth Baseband layer 10

5. (a) Explain UMTS architecture. Explain UTRA -FDD and TDD modes 10

   (b) Explain how Mobile Terminated Call works detailing the role of 10
      HLR and VLR

6. Short Notes on **any 2** 20
   (a) Wireless Local Loop
   (b) Privacy and Authentication in GSM
   (c) Android framework

JP-Con. : 11013-15.