MAY - 17

Q. P. Code : 13148

(3 Hours)   (Marks: 80

N.B: (1) Question no 1 is compulsory.
   (2) Attempt any three of remaining.
   (3) Make suitable assumptions wherever necessary and state them.

Q1   Attempt **any 4**
   A)   What is frequency reuse concept in cellular communication?   05

   B)   Explain various types of handoffs in GSM network   05

   C)   Explain wireless local loop   05

   D)   What is hidden and exposed terminal problem? Discuss solutions to these   05
        problems.
   E)   What is an antenna. Explain different types of antennae   05

Q2.   A)   Explain in detail Bluetooth protocol architecture   10
      B)   Explain Hiperlan2   10

Q3.   A)   Why is mobile IP packet required to be forwarded through a tunnel.   10
           Explain minimal technique of encapsulation

      B)   Explain the functioning of I-TCP and SNOOP-TCP giving advantages   10
           and disadvantages of both

Q4.   A)   Explain GSM in detail   10

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

Q5.   A)   Explain in detail 3G architecture   10

      B)   Explain UTRA-FDD and TDD modes   10

Q6.   A)   Write short notes on(any 02)   20
           A) Security issues in mobile computing.
           B) UMTS.
           C) Android components
           D) Satellites (GEO and LEO)

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