Paper / Subject Code: 37313 / Wireless Technology

May 22, 2024   02:30 pm - 05:30 pm   1T01236 - T.E.(Information Technology Engineering)(SEM-VI)(Choice Base Credit Grading System) (R- 19) (C Scheme) / 37313 - Wireless Technology   QP CODE: 10055935

Time: 3 HRS   **Marks: 80**

Note: 1. Q. No1 is compulsory
         2. **Solve any three questions out of the remaining five**

Q.No1   Solve any four   (20)
   a) Give the Features of VANET and MANET
   b) Compare Infrastructures based Network and an Adhoc Network
   c) Outline the method that supports mobility in CISCO Unified Wireless Network
   d) Explain WEP and the security standard used
   e) Explain LoraWAN

2
   a.   Explain the spread spectrum and briefly outline DSSS and FHSS   (10)
   b.   Illustrate and explain GSM architecture with its interfaces. Compare GSM and UMTS   (10)

3. a. Outline the WSN architecture along with neat diagrams. State the various issues   in WSN

                                                                                             (10)
   b. Illustrate the RF site survey process and their importance in the design process of
      designing a wireless network with Lightweight AP and WLC   (10)

4. a. State different features of Zigbee and explain its protocol stack   (10)
   b.   Draw and Explain Wi-Fi Architecture and Protocol Architecture   (10)

5.
   a.   Draw and explain OFDMA with a neat diagram   (10)
   b.   State the Features of Wi-MAX. Draw and explain the architecture of Wi-MAX   (10)

6.
   a. Explain UMTS and GSM security   (10)
   b. Compare and contrast 1G to 5G based on the technological differences and   (10)
      advancements. Write a short note on Massive MIMO

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