CBCS SCHEME

USN [ ][ ][ ][ ][ ][ ][ ][ ][ ]   **15MT551**

Fifth Semester B.E. Degree Examination, Aug./Sept.2020
Wireless Networks and Communication

Time: 3 hrs.   Max. Marks: 80

Note: *Answer any FIVE full questions, choosing ONE full question from each module.*

Module-1

1 a. With neat block diagram, explain wireless communication system. **(08 Marks)**
   b. With neat diagram, give classification of wireless network based on range and application. **(08 Marks)**

OR

2 a. Discuss wireless communication problems encountered in wireless network. **(08 Marks)**
   b. Explain various networking issues encountered in wireless network. **(08 Marks)**

Module-2

3 a. Explain network architecture and design issues in WBAN system. **(08 Marks)**
   b. Discuss WBAN routing protocols, S – MAC and T – MAC. **(08 Marks)**

OR

4 a. Explain W – PAN network architecture and its topologies. **(08 Marks)**
   b. Explain with neat diagram Zigbee stack architecture. **(08 Marks)**

Module-3

5 a. Explain QPSK modulation technique. **(08 Marks)**
   b. Explain error detection and error correction coding technique. **(08 Marks)**

OR

6 a. Explain diversity techniques in wireless communication. **(08 Marks)**
   b. Explain ultra wideband radio technology. **(08 Marks)**

Module-4

7 a. Explain design requirements of WLAN. **(08 Marks)**
   b. Discuss various W – LAN standards. **(08 Marks)**

OR

8 a. Discuss features of WI – MAX. **(08 Marks)**
   b. Explain with neat diagram GSM network architecture. **(08 Marks)**

Module-5

9 a. Explain quantitative and qualitative features of wireless Adhoc networks. **(08 Marks)**
   b. Explain with neat diagram wireless sensor network architecture. **(08 Marks)**

OR

10 a. With a neat diagram, explain architecture and protocols in VANET. **(08 Marks)**
    b. Explain the characteristics of VANET. **(08 Marks)**

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