End Semester Examination 2022-2023 Odd Semester

Branch: Elec. & Comm. Engg (Dual Degree)   **Semester:** 7th
Subject Name: Wifi, Bluetooth and Zigbee   **Time Duration:** 3 Hours
Subject Code: EC-706   **Total Marks:** 50

- **Note:** All questions are compulsory.   Roll No.: ....

1. Explain MAC Frame Format in IEEE 802.11 standard.   [10]

2. Write a note on the following in the context of IEEE 802.11 standard:

   (a) Association, Re-association and Disassociation.   [3]

   (b) Inter-frame Spaces.   [3]

   (c) Addressing.   [3]

   (d) IEEE 802.11g.   [3]

   (e) Ad-hoc Mesh Configuration supported by WiFi.   [3]

3. What are various frequency bands and RF channels used in Bluetooth standard ?   [5]

4. What is Logic Link Control and Adaptation Protocol in Bluetooth ?   [10]

5. What do you mean by Active and Passive Scan and Guaranteed Time Slot in Zigbee standard ?   [5]

6. Explain physical layer specifications for IEEE 802.15.4 standard ?   [5]

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