

Code No.: CS8242PE

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**CMR ENGINEERING COLLEGE: : HYDERABAD**  
**UGC AUTONOMOUS**  
**I-M.TECH-II-Semester End Examinations (Regular) - September- 2022**  
**WIRELESS AND SENSOR NETWORKS**  
**(CSE)**

[Time: 3 Hours]

[Max. Marks: 70]

- Note:** 1. Answer any FIVE questions. Each question carries 14 marks.  
2. All questions carry equal marks.  
3. Illustrate your answers with NEAT sketches wherever necessary.

5X14=70

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|----|----|----------------------------------------------------------------------------------|------|
| 1. | a) | Explain the Ad hoc networks differ from the conventional networks.               | [7M] |
|    | b) | Explain the issues and challenges of Ad hoc networks.                            | [7M] |
| 2. | a) | Discuss the simple flooding rebroadcasting scheme.                               | [7M] |
|    | b) | Explain the MCEDAR protocol.                                                     | [7M] |
| 3. | a) | Explain the link layer and list out the application of WSN.                      | [7M] |
|    | b) | Classify of wireless sensor networks based on MAC Protocol.                      | [7M] |
| 4. | a) | List and discuss the transport layer protocol for sensor networks.               | [7M] |
|    | b) | Explain the adapting to the inherent dynamic nature of wireless sensor networks. | [7M] |
| 5. | a) | Explain the secure routing in mobile ad hoc networks.                            | [7M] |
|    | b) | Explain the intrusion detection system in networks.                              | [7M] |
| 6. | a) | Explain the DSDV routing protocol.                                               | [7M] |
|    | b) | Explain the major application of Ad hoc networks.                                | [7M] |
| 7. | a) | Explain the multipoint relaying in routing protocol.                             | [7M] |
|    | b) | Explain the multicasting tree-based protocol.                                    | [7M] |
| 8. | a) | Explain the MAC layer of wireless sensor networks.                               | [7M] |
|    | b) | Explain the TCP over Ad hoc TCP protocol.                                        | [7M] |