

Code No.: CS8242PE

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS

I-M.TECH-II-Semester End Examinations (Regular) - - September - 2021
Wireless and Sensor Networks
(CSE)

[Time: 3 Hours]

[Max. Marks: 70]

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

1. a) Explain the characteristics and challenges of Mobile Adhoc Networks (MANETs)? [7M]
b) Briefly explain the criteria and classification of MANET routing algorithms? [7M]
2. a) Explain the concept of broadcasting in MANETs? [7M]
b) In detail, explain scalable broadcast algorithm (SBA)? [7M]
3. a) Explain the Transmission Control Protocol (TCP)? [7M]
b) Discuss about TCP congestion control mechanisms? [7M]
4. a) Explain the method of low energy adaptive clustering hierarchy (LEACH) algorithm in sensor networks? [7M]
b) Enumerate the differences between hierarchal and flat topologies for wireless sensor networks? [7M]
5. a) Explain the security issues over adhoc and sensor networks? [7M]
b) Explain briefly about intrusion detection systems? [7M]
6. a) In detail, explain the MANET routing protocol AODV? [7M]
b) Explain restricted directional flooding in MANETs? [7M]
7. a) Describe the issues in providing multicast in a MANET? [7M]
b) Explain the mesh based On-Demand Multicast Routing Protocol (ODMRP)? [7M]
8. a) What are the challenges in designing routing protocols for Wireless Sensor Networks? [7M]
b) Explain the classification of sensor networks? [7M]

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