Code No.: R22CS58242PE

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

I-M.TECH-II-Semester End Examinations (Supply) - March 2025 WIRELESS AND SENSOR NETWORKS (PE - IV)

(CSE)

[Time: 3 Hours] [Max. Marks: 60]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 10 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

	PART-A	(10 Marks)
1. a) b) c) d) e) f) g) h) i)	List out the major application of WSN. List out the Characteristic of MANETs. MAODV which type of routing protocol. List the hybrid routing protocol for WSN. Which MAC protocols are used in WSN? Explain the basic principal of WSN. Compare Sink node and Base station. What the major responsibility of MAC layer. Explain the key management methods in WSN. What is the need of security in ad hoc networks?	[1M] [1M] [1M] [1M] [1M] [1M] [1M] [1M]
	PART-B	(50 Marks)
2.	Discuss the AODV routing protocol.	[10M]
3.	OR Explain the characteristics of ad hoc networks.	[10M]
4.	Explain need of TCP protocol in wireless sensor networks. OR	[10M]
5.	Explain the probability-based methods for data transmission.	[10M]
6.	Explain the data retrieval in wireless sensor networks. OR	[10M]
7.	Explain the TCP over Ad hoc TCP protocol.	[10M]
8.	Discuss the solution for TCP over Ad Hoc networks. OR	[10M]
9.	List and discuss the transport layer protocol for sensor networks.	[10M]
10.	Explain the secure routing in mobile ad hoc networks. OR	[10M]
11.	Discuss the types of intrusion detection system in networks.	[10M]