Code No.: CS8242PE

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## CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

## I-M.TECH-II-Semester End Examnations (Supply) - March- 2023 WIRELESS AND SENSOR NETWORKS

(CSE)

[Time: 3 Hours] [Max. Marks: 70]

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

Part A is compulsory which carries 20 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	(20 Marks)
1. a)	List out the major application of WSN.	[2M]
b)	List out the Characteristic of MANETs.	[2M]
c)	Write a basic rule of MAODV routing protocol?	[2M]
d)	List the hybrid routing protocol for WSN.	[2M]
e)	List the MAC layer protocol used in WSN.	[2M]
f)	Explain the basic architecture of WSN.	[2M]
g	Compare Sink node and Base station?	[2M]
h)	List out the major responsibility of MAC layer.	[2M]
i)	List out the key management methods in WSN.	[2M]
j)	What is the need of security in ad hoc networks?	[2M]
	PART-B	50 Marks)
2.	Explain the Ad hoc networks differ from the conventional networks and the challenges.	
	OR	
3.	Explain the route failure and discovery mechanism in AODV routing protocol with an example.	n [10M]
4.	Discuss the simple flooding rebroadcasting scheme.	[10M]
	OR	
5.	Explain need of TCP protocol networks and list out the major application of WSN.	[10M]
6.	Explain the data retrieval in wireless sensor networks.	[10M]
	OR	
7.	Explain the MAC Layer protocol for WSN.	[10M]
8.	Discuss the transport layer protocol for sensor networks.	[10M]
	OR	
9.	Discuss the solution for TCP over Ad Hoc networks.	[10M]
10.	Explain the intrusion detection system in networks.  OR	[10M]
11.	Explain the secure routing in mobile ad hoc networks.	[10M]