Code No.: CS8242PE

R20 H.T.No. [ ] [ ] [8] [R] [ ] [ ] [ ] [ ]

CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
I–M.TECH–II–Semester End Examinations (Supply) - Feb- 2022
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)	Define Ad Hoc network.	[2M]
b)	List out application of MANETs.	[2M]
c)	List out tree-based routing protocols.	[2M]
d)	List out mesh-based routing protocols.	[2M]
e)	Explain the MAC protocol.	[2M]
f)	Classify sensor networks.	[2M]
g)	Explain the transport layer protocols.	[2M]
h)	Compare transport layer protocols.	[2M]
i)	Explain the key management protocols.	[2M]
j)	What is a secure routing.	[2M]

PART-B   (50 Marks)

2.	Compute route maintenance in AODV routing protocol with an example.	[10M]
	OR	
3.	Explain the DSDV routing Protocol.	[10M]
4.	Explain the Tree based routing Protocol.	[10M]
	OR	
5.	Explain the Core Assisted Mesh Protocol (CAMP) Protocol.	[10M]
6.	Classify of wireless sensor networks based on MAC Protocol.	[10M]
	OR	
7.	Explain the architecture of sensor networks.	[10M]
8.	Explain the high-level application support protocols.	[10M]
	OR	
9.	Explain the data retrieval in sensor networks.	[10M]
10.	Illustrate the security in the ad hoc networks.	[10M]
	OR	
11.	Explain the secure routing in wireless networks.	[10M]

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