H.T No: | | | | | | | | | | | R18 | Course Code: A30536

CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: ADHOC & SENSOR NETWORKS

(CSC)

Date: 24.04.2024 AN **Time: 3 hours** **Max.Marks: 70**

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks. **10x2=20M**

1.	What is Personal Area Network? Give example.	2 M
2.	List out the characteristics of Ad hoc networks.	2 M
3.	What is the difference between broadcasting and multicasting?	2 M
4.	Why broadcasting is frequently unreliable?	2 M
5.	What is geocasting?	2 M
6.	What is byte stream delivery?	2 M
7.	How Soil Moisture Monitoring works?	2 M
8.	What are the types of WSN?	2 M
9.	What is query based routing?	2 M
10.	Compare the SPIN and LEACH routing techniques.	2 M

PART-B

Answer the following. Each question carries TEN Marks. **5x10=50M**

11.A).	Describe the Destination-Sequenced Distance-Vector routing algorithm with suitable example.	10M
	OR	
11. B).	Describe the Zone Routing Protocol algorithm with suitable example.	10M
12. A).	Explain about Scalable Broadcasting algorithm and Ad hoc Broadcast Protocol.	10M
	OR	
12. B).	Describe the On-demand Multicast Routing Protocol with suitable example.	10M
13. A).	Explain the scheme 1 and scheme 2 of Location Based Multicasting (LBM).	10M
	OR	
13. B).	Define partitions. What are the effects of partitions on TCP? Explain with suitable example.	10M
14. A).	Explain the architecture of sensor networks.	10M
	OR	
14. B).	Explain the classification of routing protocols for WSNs.	10M
15. A).	Explain about distributed query processing and sensor databases.	10M
	OR	
15. B).	Explain the goals of adapting to the Inherent Dynamic Nature of WSNs.	10M

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