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SNS College of Technology, Coimbatore-35.

(An Autonomous Institution)

B.E/B.Tech- Internal Assessment -II

Academic Year 2023-2024(Odd Semester)

Seventh Semester

Electronics & Communication Engineering

19ECE402 – Wireless AD HoC and Sensor Networks

Time: 1^{1/2} Hours

Maximum Marks: 50

B

Answer All Questions

PART - A (5x 2 = 10 Marks)

		CO	Blooms
1.	Simplify the advantages of Request to Send (RTS) and Clear to Send (CTS) frames in CSMA/CA for collision avoidance	CO1	Ana
2.	Outline the concept of contention-based and reservation-based mechanisms in wireless networks	CO1	Und
3.	List the characteristics of a routing protocol for ad hoc wireless networks	CO1	R
4.	Label the types of on-demand routing protocols	CO2	R
5.	Classify the difference between Ad hoc on demand Distance vector routing protocol (AODV) and dynamic sequence routing protocol (DSR)	CO2	Und

PART – B (2x13) + (1x14) = 40 Marks

			CO	Blooms
6.	(a) Elaborate on how the update process for scheduling tables operates in distributed priority scheduling.	13	CO1	U
	(or)			
	(b) Summarize a detailed overview of the AODV (Ad Hoc On-Demand Distance Vector) routing protocol, including its operational principles, advantages, and applications in wireless ad hoc networks.	13	CO1	U
7.	(a) Identify the significant hurdles encountered by routing protocols engineered for ad hoc wireless networks, delving into the complexities involved in designing solutions for dynamically changing and self-configuring wireless environments.	13	CO1	App
	(or)			
	(b) Choose table-driven protocols, providing examples to illustrate their implementation and functioning in various	13	CO2	App

		networking scenarios.			
8.	(a)	Compare and contrast contention-based and reservation-based mechanisms in the context of wireless communication networks, considering both synchronous and asynchronous protocols	14	CO1	Anal
		(or)			
	(b)	Discover the advantages and challenges associated with distributed priority-scheduling algorithms. How do these algorithms enhance system performance and ensure fairness in task execution across multiple nodes or devices?	14	CO2	Analy

Abbreviations: Co- Course Outcomes, Rem-Remembrance, Und-Understanding, App- Apply, Ana-Analyse, Eva-Evaluate, Cre-Create

Course Coordinator

Teaching Coordinator

HoD/Dean