



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai

Accredited by NAAC-UGC with 'A++' Grade (Cycle III) &

Accredited by NBA (B.E - CSE, EEE, ECE, Mech & B.Tech.IT)

COIMBATORE-641 035, TAMIL NADU



Reg. No:

B.E/B.Tech- Internal Assessment – II
Academic Year 2024-2025 (ODD Semester)
Seventh Semester
Electronics and Communication Engineering
19ECE402 – Wireless Adhoc and Sensor Networks

B

Time: 1^{1/2} Hours

Maximum Marks: 50

Answer All Questions
PART - A (5 x 2 = 10 Marks)

			CO	Blooms
1.	List the the significance of Request to Send (RTS) and Clear to Send (CTS) frames in CSMA/CA for collision avoidance		CO2	REM
2.	Define contention-based and reservation-based mechanisms in wireless networks		CO2	REM
3.	List the characteristics of a routing protocol for ad hoc wireless networks		CO2	REM
4.	Label the types of on-demand routing protocols.		CO3	REM
5.	Differentiate the between Ad Hoc on demand Distance vector routing protocol (AODV) and dynamic sequence routing protocol (DSR)		CO3	UND
PART – B (2*13=26 Marks) & (1*14=14 Marks)				
			CO	Blooms
6.	(a) Elaborate on how the update process for scheduling tables operates in distributed priority scheduling.	13	CO2	UND
	(OR)			
	(b) Analyze the concept of contention-based and reservation-based mechanisms in the context of wireless communication networks with synchronous and asynchronous protocols.	13	CO2	ANA
7.	(a) Identify and explain the major challenges that routing protocols designed for ad hoc wireless networks encounter.	13	CO3	APP
	(OR)			
	(b) Build the characteristics of an ideal routing protocol for ad hoc wireless networks	13	CO3	APP
8.	(a) Take part in a high-level implementation plan for DSR at the university. What steps should the IT department take to ensure a successful deployment? Include considerations for testing, user training, and integration with existing infrastructure.	14	CO3	ANA
	(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	CO3	ANA

Bloom's Taxonomy: REM – Remember UND – Understand APP– Apply ANA– Analyze EVA - Evaluate CRT - Create



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