Reg.No: [ ][ ][ ][ ][ ][ ][ ][ ]

SNS College of Technology, Coimbatore-35.
(An Autonomous Institution)
B.E/B.Tech- Internal Assessment -I
Academic Year 2023-2024(Odd Semester)
Seventh Semester
Electronics & Communication Engineering
19ECE402 – Wireless AD HoC and Sensor Networks

B

Time: 1¹ᐟ² Hours   **Maximum Marks: 50**

Answer All Questions

PART - A (5x 2 = 10 Marks)

		CO	Blooms
1.	Outline the challenges issues in ad hoc networks.	CO1	Ana
2.	Illustrate the characteristic requirements of a wireless sensor network.	CO1	Und
3.	Interpret the term Wireless fidelity systems.	CO1	Und
4.	Outline the concept of hidden terminal problem.	CO2	Ana
5.	What is mean by node Synchronization techniques?	CO2	Und

PART – B (2x13) + (1x14) = 40 Marks

				CO	Blooms
6.	(a)	Examine the major advantages of ad hoc wireless Internet.	13	CO1	Ana
		(or)			
	(b)	Examine ultra wide band radio communication in detail.	13	CO1	Ana
7.	(a)	Explain in detail Unique constraints, challenges and Vulnerabilities of ad-hoc and sensor networks.	13	CO1	Und
		(or)			
	(b)	Express how the scheduled based MAC protocol differs from the contention based MAC protocol.	13	CO2	Und
8.	(a)	Draw the schematic diagram of an ad hoc wireless Internet and discuss the issues to be considered for the successful ad hoc wireless Internet.	14	CO1	App
		(or)			
	(b)	Build the basic concepts of MAC hidden node-exposed node problems and discuss the pros and cons in the implementation.	14	CO2	App

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

SNS College of Technology, Coimbatore-35.
(An Autonomous Institution)
B.E/B.Tech- Internal Assessment -I
Academic Year 2023-2024(Odd Semester)
Seventh Semester
Electronics & Communication Engineering
19ECE402 – Wireless AD HoC and Sensor Networks

B

Time: 1$^{1/2}$ Hours   **Maximum Marks: 50**

Answer All Questions

PART - A (5x 2 = 10 Marks)

		CO	Blooms
1.	Outline the challenges issues in ad hoc networks.	CO1	Ana
2.	Illustrate the characteristic requirements of a wireless sensor network.	CO1	Und
3.	Interpret the term Wireless fidelity systems.	CO1	Und
4.	Outline the concept of hidden terminal problem.	CO2	Ana
5.	What is mean by node Synchronization techniques?	CO2	Und

PART – B (2x13) + (1x14) = 40 Marks

				CO	Blooms
6.	(a)	Examine the major advantages of ad hoc wireless Internet.	13	CO1	Ana
		(or)			
	(b)	Examine ultra wide band radio communication in detail.	13	CO1	Ana
7.	(a)	Explain in detail Unique constraints, challenges and Vulnerabilities of ad-hoc and sensor networks.	13	CO1	Und
		(or)			
	(b)	Express how the scheduled based MAC protocol differs from the contention based MAC protocol.	13	CO2	Und
8.	(a)	Draw the schematic diagram of an ad hoc wireless Internet and discuss the issues to be considered for the successful ad hoc wireless Internet.	14	CO1	App
		(or)			
	(b)	Build the basic concepts of MAC hidden node-exposed node problems and discuss the pros and cons in the implementation.	14	CO2	App

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