Reg. No.:

Name:



## TERM END EXAMINATIONS (TEE) – December – January 2024-25

Programme :Intg. M.Tech. [MIM], B.Tech- EC Semester : Interim 2024-25

Course Name :Wireless Sensor Networks Course Code : ECE4007
Date of Exam :03.01.2025 Slot : C11+C12

Time :1½ Hrs. Max. Marks : 50

## **Answer ALL the Questions**

Q. No.		Question Description	Marks
		<b>PART A – (30 Marks)</b>	
1	(a)	What are the challenges and the required mechanisms of a Wireless Sensor network OR	10
	(b)	Illustrate about the Low Energy Adaptive Clustering Hierarchy protocol	10
2	(a)	Explain the design approaches and performance of S-MAC protocol	10
		OR	
	(b)	Illustrate how the Zigbee technology will be utilized in WSN.	10
3	(a)	Explain in detail about the different localization mechanisms	10
		OR	
	(a)	Interpret how the Contiki OS operating system supports resource constrained hardware platforms. Discuss in detail	10
		PART B – (20 Marks)	
4		Describe about the directed diffusion routing protocol.	10
5		Illustrate how smart agriculture will be done using WSN.	10

