



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.														
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Mid - Term Examinations – October 2025

Date: 09-10-2025

Time: 09.30am to 11.00am

School: SOCSE/SOIS	Program: COMPUTER SCIENCE AND NETWORKS	
Course Code : CSN2504	Course Name: WIRELESS SENSOR NETWORK	
Semester: V	Max Marks: 50	Weightage: 25%

CO - Levels	C01	C02	C03	C04	C05
Marks	25	25			

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

5Q x 2M=10M

1	Explain the role of reconfigurable sensor networks in military surveillance	2 Marks	L1	C01
2	What is source-node processing in WSNs?	2 Marks	L1	C01
3	Explain collaborative data processing in WSNs.	2 Marks	L3	C02
4	What is intelligent data reduction?	2 Marks	L1	C02
5	List the WSN research trends	2 Marks	L1	C02

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Differentiate between Category 1 WSN and Category 2 WSN with architecture	10 Marks	L1	C01
	b.	Explain the applications of Wireless Sensor Networks in a) home automation and building automation b) Habitat Monitoring c) Nanoscopic Sensor Applications	10 Marks	L3	C01
Or					
7.	a.	Explain about the sensing nodes with block diagram?	10 Marks	L3	C01
	b.	Explain C2WSN Applications	10 Marks	L3	C01

8.	a.	Explain the Hardware and Software of Sensor Node Technology	10 Marks	L3	C02
	b.	Explain campus applications of WSNs with examples.	10 Marks	L3	C02
Or					
9.	a.	Explain MAN/WAN applications of WSNs.	10 Marks	L3	C02
	b.	Explain Bluetooth and WiMAX technology (architecture, duplexing, MAC, applications)	10 Marks	L3	C02