Sanjay Ghodawat University, Kolhapur

2020-21

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

EXM/P/09/00

Year and Program: Final Year	**School of Technology**	**Department: Electrical Engineering**
Course Code: EET407.4	**Course Title: Wireless Sensor Networks**	**Semester :VII**
Day : Saturday **Date :26.12.2020**	**End Semester Examination**	**Time : 2Hrs.** **Max Marks :50**

Instructions: 1) All Questions arecompulsory.
2) Assume suitable data wherever necessary.

		Marks	Bloom's Level	CO
Q.1	**Answer the following (any Two)**–			
a)	Describe Hardware components of Single-Node-Architecture with Block Diagram.	8	L1	CO2
b)	Explain in details Sensor Network Architecture. (Layered Network Architecture and Clustered Architecture)	8	L2	CO2
c)	Explain Event-based programming for Tiny OS.	8	L2	CO3
Q.2	**Answer the following (any two) –**			
a)	Write short notes on Programming Models Requirements.	8	L3	CO4
b)	Write short notes on Categorization of Simulators. Explain Limitations.	8	L4	CO3
c)	Explain in details case study of Wireless sensor networks for environmental monitoring.	8	L5	CO4
Q.3	**Answer the following (any two) –**			
a)	Explain need of Gateway and Gateway concepts in details.	9	L3	CO1
b)	Explain System Architectures in details. (Node Internals and Node Interactions)	9	L4	CO4
c)	Explain in details Required Characteristics and mechanism for WSN.	9	L1	CO1

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