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 B.Tech (EEE)	**School of Technology**	**Department: Electrical Engineering**
Course Code: EET 405	**Course Title: Internet of Things (IoT)**	**Semester :VII**
Day : Thursday **Date :24 December 2020**	**End Semester Examination**	**Time : 2 Hrs.** **Max Marks : 50**

Question Paper

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

		Marks	Bloom's Level	CO
Q.1	**Answer the following (any Two)**			
a)	Identify various technologies for enabling IoT.	8	L_3	CO1
b)	Specify with a schematic the IoT protocols used in different layers.	8	L_4	CO1
c)	Illustrate any one IoT Level with neat schematic of an application.	8	L_3	CO2
Q.2	**Answer the following (any two)**			
a)	Compare and contrast between IoT and M2M communication with an illustrative schematic diagram.	8	L_5	CO2
b)	Describe in brief any 8 important characteristics/parameters of selection of a sensor.	8	L_2	CO4
c)	Write a Sketch Program in python for interfacing a DHT sensor and displaying the Humidity and Temperature values on serial monitor.	8	L_3	CO3
Q.3	**Answer the following (any two)**			
a)	Elaborate a sensor node architecture in WSN also Compare and contrast between Infrastructure based and Ad-hoc WSNs.	9	L_4	CO4
b)	Interface LEDs with diagram and Sketch program to simulate a traffic signal control system using Arduino UNO.	9	L_5	CO5
c)	Design any one application example/ case study for a smart city aligned with IoT design methodology.	9	L_6	CO6

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