

Name:	 UPES UNIVERSITY WITH A PURPOSE
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2019

Course: Introduction to Internet Of Things	Semester:
Program: B.Tech CSE + IOT&SC	Time : 03 hrs.
Course Code: CSIS 2001	Max. Marks: 100

Instructions:

SECTION A

S. No.		Marks	CO
Q 1	Identify and explain various security vulnerabilities in IOT communication.	4	CO4
Q 2	How IOT is helpful in the Transportation and Logistic field, please defend your answer with proper example/scenario?	4	CO2
Q 3	Enlist various types of RF wireless sensors	4	CO2
Q 4	Give the details of component that are part of IOT Ecosystem.	4	CO1
Q 5	Differentiate between authorization and authentication.	4	CO4

SECTION B

Q 6	Define Validation and its variants in trust IOT communication.	10	CO4
Q 7	Discuss WSN architecture with the help of diagram and identify the design issues related to it.	10	CO3
Q 8	a) Clearly differentiate between NB-IOT and LTE-M. (6 marks) b) Also, give the examples of IOT devices that uses these technology standards. (4 marks)	10	CO2
Q 9	Illustrate IOT Decision Framework, and categorize the IOT stack and Decision Area. OR Mention the differences and similarities between IOT and Telemetry with suitable example.	10	CO1

SECTION-C

Q 10	Identify and categorize different IOT deployment levels. Describe the steps followed in IOT design methodology. (10 + 10) OR Discuss the various IOT hosted services. Give a brief details of existing API's and protocol for IOT service layer used for IOT application development. (5 + 15)	20	CO3
Q 11	Describe in detail the next generation kiosk and its various types with suitable application area. (10 marks). Enlist various network devices used for internet and explain them in detail. (10 marks)	20	CO1, CO2