Name:	
Enrolment No:	UPES UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, 2020

Course: IOT for Industries   Semester: VIII
Program: B.Tech (CS + IOT&SC)   Time : 03 hrs.
Course Code: CSEG 486   Max. Marks: 100

Instructions: All Questions are Compulsory.

SECTION A

S. No.		Marks	CO
Q 1	IOT is profitable in the fields where both _____, as well as the _____, are the critical factors a) Automatic Development, Quick Delivery b) employee, Customer c) Suppliers, warehouse d) Faster Development, Quality of Products	5	CO1
Q 2	The benefit of including IOT sensors in manufacturing sector especially in equipment enables what type of maintenance a) Predictive Maintenance b) condition based Maintenance c) Preventive Maintenance d) Corrective Maintenace2	5	CO2
Q 3	Logistics 4.0 technologies have the following benefits: a. Improved operational efficiency, accuracy and visibility b. Inventory management enhanced human workforce capabilities. c. Improved production efficiency, better marketing strategies d. better customer targeting, improved designs. a) a & d b) b & c c) c & d d) a & b	5	CO4
Q 4	_____ is a wireless inventory control system that has been typically fitted with weight sensors and RFID tags a) Smart Logistics b) Smart Shelves c) Smart Greenhouses d) Automotive equipment	5	CO3

Q 5	An important component of IoT that helps in sensing the environmental condition and perform an action is the _____ a) Switch b) Wi-Fi c) Sensor d) User Interface	5	CO1
Q6	_____ connection helps in preventing accidents and allow emergency vehicles like ambulances and fire trucks to easily move through traffic. a) V2V b) V2I c) V2P d) V2N	5	CO 4

SECTION B			
Q 7	Explain the differences between IoT and IIoT and discuss the role of IIoT in Fitness Industry.	10	CO 1
Q 8	IIoT helps in condition based maintenance in manufacturing industry. Discuss.		CO 2
Q 9	Explain any four sensors and their application areas. Or Discuss the role of IoT in real time inventory management.	10	CO2
Q 10	Discuss the advantages and challenges of IoT in healthcare sector.	10	CO 3
Q 11	Write short Notes on a) Smart Product Management b) Near Field Communication	10	CO 4

SECTION-C			
Q 12	Explain automotive IoT. Discuss the different types of Telematics solution available in the market and key features of In-vehicle infotainment systems.	20	CO4