Name: **Enrolment No:**	UPES UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May2020

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	Bluetooth is the wireless technology for _____ a) local area network b) personal area network c) metropolitan area network d) wide area network	**2**	**CO1**
Q 2	When was Bluetooth version 5.0 released a) Oct 2015 b) March 2016 c) Dec 2016 d) May 2017	**2**	**CO1**
Q 3	The rate of data transfer in Bluetooth 5.0 is a) 2Mbps b) 2.5 Mbps c) 3 Mbps d) 5 Mbps	**2**	**CO1**
Q 4	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	**2**	**CO2**
Q 5	MQTT is _____ protocol. a) Machine to Machine b) Internet of Things c) Machine to Machine and Internet of Things d) Machine Things	**2**	**CO1**
Q 6	a) The use of IOT sensors in manufacturing equipment enables _____ b) Predictive Maintenance	**2**	**CO2**

	c) condition based Maintenance d) Preventive Maintenance e) Corrective Maintenace2		
Q 7	What risks and challenges should be considered in the Internet of Everything a) Privacy and Security b) Energy Consumption c) Network Congestion d) All of the above	**2**	**CO1**
Q 8	_____ is being used by IOT a) Radio Identification Technology b) Satellite c) Cable d) Broadband	**2**	**CO1**
Q 9	Which is NOT one of the concerns of IOT a) Data Storage standards b) efficiency c) Privacy Concern d) Cyber Security	**2**	**CO2**
Q 10	_____ is the fundamental benefit of deploying an inventory management system using IOT a) Production Monitoring b) Facility Management c) Corrective Maintenance d) Real time Communication	**2**	**CO2**
Q 11	With direct live transmission of voice and video, physicians at the hospital can watch over the patient en route to the hospital, It is called a) Remote Monitoring b) Tele trauma c) Telepresence d) None of the above	**2**	**CO3**
Q 12	_____ intends to distinguish vehicle maintenance issues before they happen. a) Corrective Maintenance b) condition based Maintenance c) Preventive Maintenance d) Predictive Maintenance	**2**	**CO3**
Q 13	The three types of telematics available in the market are a) P&P, Fixed Telematics, Detached Telematics b) Plug & Play, Telematics Applications, Hardwired c) Soft Telematics, Hard Telematics, Semi-detached d) None	**2**	**CO3**
Q 14	OEM in automotive industry stands for a) Oracle Enterprise Manager	**2**	**CO3**

	b) Other Equipment Manufacturer c) Optical Equipment Manufacturer d) Original Equipment Manufacturer		
Q 15	The key requirements for Digital Twin strategy are a) Comprehensive Data Model b) Fixed Layout c) Powerful Data Viewing Engine d) Both a and c	**2**	**CO4**
Q 16	IoT will generate 4 primary forms of value in terms of manufacturing processes a) Supply Chain Mgmt, Operating Efficiency, Predictive Maintenance, Inventory Optimization b) Utilization, Operating Efficiency, Throughput, Backup c) Supply Chain Management, Production, Inventory, Process Control d) Unit Control, Utilization, Backup, Inventory Optimization	**2**	**CO2**
Q 17	cars are connected with each other over an IoT network called _____ a) CV2I b) CV2Y c) CV2X d) CV2P	**2**	**CO4**
Q 18	Telematics refers to a) long transmission of computerized data b) Storage of frequent Data c) Data Management d) None of the above	**2**	**CO3**
Q 19	vehicle tracking devices which are mechanically fitted into the vehicle a) On Board Diagnostics Telematics b) Mobile Based Telematics c) Hardwired Telematics d) None of the above	**2**	**CO4**
Q 20	Application to locate nearby taxis and monitor the estimated time of arrival for transits is a) CV2I b) CV2A c) CV2P d) CV2N	**2**	**CO4**
Q 21	The Internet of things (IoT) is expected to drive value in the supply chain and logisti cs disciplines through enhanced customer interactions and _____. a) improved order management techniques b) faster transit times c) reduced warehousing requirements d) improvements in employee productivity	**2**	**CO4**
Q 22	_____ is used to carry encoded digital data about the objects attached a) RFID Antenna	**2**	**CO2**

	b) RFID Tag c) RFID Reader d) All of the above		
Q 23	weather forecast department can also connect with and alert the drivers about change in weather a) CV2I b) CV2N c) CV2P d) CV2V	**2**	**CO4**
Q 24	Which of the following is not a benefit to utilizing IOT in logistics a) Greater Knowledge & visibility b) Awareness of customer demand c) Lower Costs d) Better coordination of manufacturing, merchandising units	**2**	**CO4**
Q 25	NFC stands for _____ a) Near Fast Communication b) Near Field Communication c) Near Field Customer d) Near Field Connection	**2**	**CO4**
Q 26	What Prevents Out-Of-Stock situations by alerting when stock level gets low or critical in a shop a) Automated Supply Chain b) Smart Shelves c) Manual Monitoring d) None of the above	**2**	**CO4**
Q 27	NFC is a set of _____ that enables two electronic devices to communicate with one another. a) Communication Protocols b) Services c) Tools d) sensors	**2**	**CO4**
Q 28	_____ telematics allow the user to get vehicular data like vehicle speed, RPM a) On Board Diagnostics Telematics b) Mobile Based Telematics c) Hardwired Telematics d) All of the above	**2**	**CO2**
Q 29	Pick the Incorrect one The major advantages of IOMT are a) Improved Treatment b) Personal Data Security c) Error Reduction d) Drug Management	**2**	**CO3**

Q 30	The biggest limitation in implementing IOT based solutions in aged people is a) Cost b) Complexity c) Technology Adoption d) All of the above	**2**	**CO3**
SECTION B			
Q 31	Discuss the role of IIOT in entertainment Industry by giving 2 suitable examples. Or IIOT helped manufacturing process to grow, explain Supply Chain Management; Operating Efficiency; Predictive Maintenance; Inventory Optimization wr.t. Manufacturing Industry.	**10**	**CO1**
Q 32	Explain any two wearable devices that supports Bluetooth and explain different types of Bluetooth available and their role in IIOT. Or Define Machine-to-Machine communication M2M and give examples to support your answer.	**10**	**CO2**
SECTION-C			
Q 33	Discuss how Industrial Internet of Things can help the businesses. Explain with respect to the retail industry.	**10**	**CO4**
Q 34	With the advent of Industrial IOT Vehicle infotainment system got some new features. Discuss the features of vehicle infotainment system powered by IIOT.	**10**	**CO3**