Reg. No.:					

Question Paper Code: 95R25

M.E. DEGREE EXAMINATION, JAN 2020

Elective

Computer Science and Engineering

19PCS525 - Smart Sensors and Internet of Things

	(Regulat	tion 2019)			
Duration: One hour		Maximum: 30 N	Marks		
	PART A - (6	x 1 = 6 Marks			
	(Answer any six of the	ne following questions)			
1.	The huge number of devices connected to the Internet of Things has to communicate automatically, not via humans. What is this called?				
	(a) Skynet	(b) Bot 2 Bot			
	(c) Machine 2 Machine	(d) Intercloud			
2.	What is the sensor/protocol used in GS	SN?	CO1- R		
	(a) HTTP protocol	(b) CoAP protocol			
	(c) MQTT protocol	(d) XMPP protocol			
3.	Services in a microservice architect communicates with each other over the		CO2- R		
	(a) Microservices (b) SOA	(c) API (d) Proce	esses		
4.	Which of the following is IoT device r	nanageability?	CO2- R		
	(a) Protocol abstraction	(b) Simple and fast installation	1		
	(c) Security with hardware	(d) Data storage			
5.	Which devices measures gases or liqui	id?	CO3- R		
	a) Proximity sensor	(b) Pressure sensor			
	(c) Temperature sensor	(d) Touch sensor			

6.	Which sensor measures the pres		CO3- R			
	(a) Absolute pressure sensor	(b) Gauge pressure sens	or			
	(c) Vacuum pressure sensor	(d) Differential pressure	e sensor			
7.	What is the role of Bigdata in sn	CO4	ŀ- R			
	(a) Store data	(b) Manage data				
	(c) Collect data	(d) Security				
8.	What is the role of Cloud in sma		CO4- R			
	(a) Store data	(b) Manage data				
	(c) Collect data	(d) Security				
9.	Which sensor can detect nearby	Which sensor can detect nearby objects?				
	(a) Proximity sensor	(b) Humidity sensor				
	(c) Touch sensor	(d) Pressure sensor				
10.	The monitoring of machines, gears and objects are achieved by which sensor?					
	(a) Humidity sensor	(b) Proximity sensor				
	(c) Touch sensor	(d) Pressure sensor				
	PAR	RT – B (3 x 8= 24 Marks)				
	(Answer any	three of the following questions))			
11.	Explain about environmental pa	rameter of IoT applications.	CO1- U	(8)		
12.	Discuss in detail about select applications	ction of sensors for practical	CO2- U	(8)		
13.	Discuss in detail about Molecula	ar spectroscopic sensor	CO3- U	(8)		
14.	Discuss in detail about Architecture of Smart Sensors. CO4-			(8)		
15.	Discuss in detail about Interface Sensors	ce Electronic Circuit for Smart	CO5- U	(8)		