P P SAVANI UNIVERSITY

Fourth Semester of B.Sc. (IT) Examination May 2022

SSIT2051 Internet of Things

18.05.2022, Wednesday Time: 09:00 a.m. To 11:30 a.m.

Maximum Marks: 60

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Instruction		W. F. W. S. C.	
	uestion paper comprises of two sections.		
2. Section	on I and II must be attempted in same answer sheet.		
	suitable assumptions and draw neat figures wherever required.		
4. Use of	f scientific calculator is allowed.		
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0.1	SECTION - I		
Q-1	Answer the Following:		[05]
(i)	Which of the following is not an advantage of IoT?		
	(a) Improved Customer Engagement		
	(b) Security		
	(c) Reduced Waste		
	(d) Enhanced Data Collection		
(ii)	The term "Internet of Things" was coined by?		
	(a) Kevin Ashton		
	(b) Guido van Rossum		
	(c) IBM		
	(d) Ross Ihaka		
(iii)	Which of the following category is used for business to consumer process?		
	(a) Group IoT		
	(b) Community IoT		
	(c) Industrial IoT		
	(d) Personal IoT		
(iv)	Which of the following is not an IoT platform??		
	a) Amazon Web Services b) Microsoft Azure		
	c) Salesforce d) Flipkart		
(v)	Which of the following is not a sensor in IoT?		
	a) BMP280 b) DHT11 c) Photo resistor d) LED		
Q - 2 (a)	Differentiate MPU and MCU.		[05]
Q-2(b)	Explain layered architecture of IOT.		[05]
	OR		
Q-2(b)	Discus Advantages of IOT.		[05]
Q-3(a)	Explain Arduino Uno with its architecture.		[05]
Q - 3 (b)	Explain ESP8266.		[05]
	OR		
Q-3(b)	Differentiate Sensors and Actuators.		[05]
Q-4	Attempt Any One.		[05]
(i)	Explain Types of Sensors.		
(ii)	Explain Raspberry Pi.		
	SECTION - II		
Q-1	Answer the Following:		[05]
(i)	RFID stands for		
(ii)	MQTT is oriented.		
	(a) Data (b) Message		
	(c) Network (d) Device		

(iii)	The higher the QoS, the higher the performance in MQTT?	
	(a) True (b) False	
(iv)	BLE termed as	
(v)	What are the disadvantages of RFID?	
	a) High-cost	
	b) Overhead reading	
	c) Reduce manpower	
	d) Both a and b	
Q-2	What's RFID? Explain it's working with data format.	[07]
Q-3	Discuss MQTT framework working and message format in detail.	[08]
Q-4	Attempt any one.	[10]
(i)	Define crucial terms of IoT security. With a case study relate the concept of securing IoT.	. ,
(ii)	Briefly discuss role of Cloud in IoT. Interface and Program LED with ESP8266 to control it with local http server	