Paper / Subject Code: 42672 / Internet of Everything

[80 Marks]

1T01237 - B.E.(Information Technology Engineering)(SEM-VII)(Choice Base Credit Grading System) (R- 19) (C Scheme) / 42672 - Internet of Everything QP CODE: 10026510 DATE: 16/06/2023

[3 hrs]

Note	: 1. Question 1 is compulsory.	
	2. Answer any three out of remaining questions.	
	3. Assume suitable data where required.	
Q1	Solve any 4	
a)	What is the Internet of Behaviour (IoB) and why is it the future?	5
b)	Compare and contrast IoT data analytics and IoT network analytics.	5
c)	Briefly elaborate the Advanced Message Queuing Protocol(AMQP)	5
d)	While designing the IoT based smoke detection system what all parameters	5
	need to be considered before choosing the required senor.	
e)	Explain applications of Bluetooth Low Energy (BLE)	5
02		
Q2 a)	Compare and contrast Edge, Fog, and Cloud Computing. Explain their usage	10
a)	with an example.	20
b)	Consider smart farming system. Elaborate its working and list down the	10
0)	different types of sensors and actuators required during the deployment scenario	10
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Q3		
a)	Describe IoT World Forum (IoTWF) Standardized Architecture	10
(b)	Explain the architecture of LoRaWAN with its major Characteristics	10
Q4		
a)	Explain ecosystem for IoT enabled Smart Home Automation with respect to	10
u)	sensors, actuators, framework, protocols, storage, data analysis, security etc.	10
b)	State advantages of data visualisation. Give different tools used for it.	10
1/2		
Q5		
a)	Elaborate the Smart Object with diagram and describe all the essential	10
	components required to make the object into the smart object.	
b)	Explain the following access technologies with applications area of each	10
	1) Zigbee 2)RFID 3)6LoWPAN 4) CoAP	
Q6		
a)	Draw and explain Architecture of MQTT with diagram	10
b)	Elaborate the need of new network architecture in IoT.	10
30		
