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Reg. No		- 1					

B.Tech. DEGREE EXAMINATION, JUNE 2023

Sixth Semester

18EEE331T - INTERNET OF THINGS

(For the candidates admitted during the academic year 2018-2019 to 2021-2022)

Note:

i. Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40 minutes.
ii. Part - B and Part - C should be answered in answer booklet.

Time: 3 Hours				Max. Marks: 100				
Part - A (20 × 1 Mark Answer All Qu		Mar	ks BL	CC				
 The following one is not the characteristic (A) Self- configuring (C) Unique identity 	s of IoT (B) Dynamic & self-adapting (D) Standalone infrastructure	1	1	1				
2. The 'Things' in IoT is usually refers to (A) IoT devices (C) Resources	(B) Controller services (D) App	1	1	i				
 LR-WPAN stands for (A) Low –rate wireless personal area network (C) Low-resistance wired personal area network 	(B) Low-reluctant wireless personal area network(D) Layer-reduced wireless personal area network	1	1	1				
 4. MQTT is stands for (A) Mainframe Queue Telemetry Transport (C) Metadata Queue telemetry transport 	(B) Message Queue Telemetry	1	1	1				
5. Key components of M2M System are(A) Smart City(C) Data Distribution serviced	(B) Set of rules (D) Sensors and Wi-Fi	1	1	2				
6. The internet of things will run on several is not a standard protocol?(A) AllSean(C) Z-wave	communication standards. Which of these (B) Tyrell (D) Zigbee	1	1	2				
7. Who will use their own IOT business mod(A) PaaS(C) SaaS	lels? (B) IaaS (D) Service Provider	1	1	2				
 Security based relation is provided by whi (A) Application layer (C) Session layer 	ch layer? (B) Transport layer (D) Network layer	1	**************************************	2				
9. The number of used bits in PSW register is(A) 5(C) 6	(B) 8 (D) 7	1	1	3				

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10.	•	Uno? B) 5	1	1	3
	(C) 6	0) 12			
11.		or storing the code. 3) 30 KB 1) 16 KB	1	1	3
12.	Arduino uses architecture to store (A) Von-Neuman (E)	the program and data. B) Harvard C) CISC	1	1	3
13.		Rear field identification Radio frequency identification	1	1	4
14.	CONTRACTOR OF THE PROPERTY OF	n active RFID tag would be used? 3) Vehicle movement tracking 5) Secure opening of doors	1	1	4
15.	the state of the s	For establishing small personal area B) Communication Technology D) Wired Technology	1	99	4
16.		B) XMPP D) Z-WAVE	1	l	4
17.	(A) Provide remote monitoring (B	nagement in IoT design is to B) Provide control function D) Provide management information	1	1	5
18.	(A) Local analysis of the data (B	ign is the system should perform 3) Global analysis of the data 3) System data analysis	1	***	5
19.	(A) Define the model (B	IoT design methodology is to B) Define the use cases D) Define the methodology	1	2	5
20.	(A) Map IoT level to specifications (B	in IoT design methodology is to 3) Map IoT level to functional groups 3) Define specification of IoT design	1	2	5
	Part - B (5 × 4 Marks = 20 Answer any 5 Question	, marks)	Marks	BL	co
21.	Explain the architecture of IoT and design proc	ess.	4	2	1
	2. Draw the block diagram of an M2M gateway and describe its functions.			2	2
	3. Discuss about the Network operator Requirements.			2	2
	4. Explain information model specification in IoT platform design methodology.			2	3
	70.1		4	1	3
	Explain the general IoT Design modeling with		4	2	5
	Explain IoT design based indoor air quality more		4	2	5

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	Part - C (5 × 12 Marks = 60 Marks) Answer All Questions	Marks	BL	CO
28.	(OR)	12	2	1
	b. Explain IoT enabling technologies in detail.			
29.	a. Explain the M2M Service Platform and SNMP with suitable block diagrams. (OR)	12	2 -	2
	b. Draw the architectures of SDN and NFV and discuss the functions of its key elements.			9
30.	a. Explain the IoT platform design methodology with a case study. (OR)	12	2	3
	b. Explain Python Data Types and give examples.			
31.	a. Construct the I2C and SPI interfaces for data transfer in Raspberry Pi and explain with neat diagrams.	12	2	4
	b. Write short notes on the IoT devices (i) pcDuino and (ii) BeagleBone Black			
32.	a. Explain the IoT Design modeling of Home Automation for smart lighting and smart appliances with necessary diagrams.	12	3	5
	b. Draw the block diagram, Process flow, domain model and IoT level for any one IoT application and explain.			
