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B.Tech DEGREE EXAMINATION, MAY 2024

Fifth Semester

18CSE379T - 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 40th minute.
 ii. Part - B and Part - C should be answered in answer booklet.

Time	Max. Marks: 100				
	Marks BI		, со		
1.	IoT Analytics helps to (A) Collect data (C) Collect, store and Process data	(B) Collect and store data (D) Store data	1	2	1
2.	Which is not an IoT communication mod (A) Push- producer (C) Request – response	del? (B) Publish –subscribe (D) Exclusive pair	1	2	Ī
3.	Prognostics is a which type of domain-sp (A) Energy systems (C) Legistics	pecific IoT application? (B) Retail (D) Environment	1	2	year.
4.	Pick the correct one from the following solutions where" (A) Data involved is not big, not computationally intensive. (C) Data involved is big and the analysis requirements are computationally intensive.	 (B) Data involved is big, not computationally intensive (D) Multiple nodes are required, the data involved is big and the analysis requirements are computationally intensive. 		1	1
5.	Which layer supports Communication M (A) Application layer (C) Network layer	lodels? (B) Service layer (D) Data link layer	1	1	2
6.	Data in motion is part of(A) IT and End Devices (C) OT and Edge devices	and usually handled by (B) OT and End Devices (D) IT and Edge devices	1	2	2
7.	Which of the following are not managed (A) Event-based (C) Data in Motion	by OT? (B) Query-based (D) Real-time	1	2	2
8.	In edge analytics, data are found to be at (A) rest (C) idle	(B) restless (D) inactive	1	1	2
9.	Which of the following is not an IoT pla (A) Amazon web services (C) Salesforce	tform? (B) Microsoft Azure (D) Flipkart	1	2	3
10.	Calorimeter generate output according to (A) Circuit parameters (C) Temperature	(B) Humidity (D) Voltage	1	.2	3

11.	Which is used to capture data from the phy (A) Sensors (C) Microprocessors	sical world in IoT devices? (B) Actuators (D) Microcontrollers	1	1	3
12.	Pick the odd one out from the following (A) Arduino (C) Lilypad	(B) Raspberry Pi (D) Lego Mindstroms	1	2	3
13.	Any data that does not fit neatly into a pred (A) Structured data (C) Big data	lefined data model is classified as (B) Unstructured data (D) Formatted data	1	2	4
14.	analysis aims to foretell problems (A) Descriptive (C) Diagnostic	(B) Prescriptive (D) Predictive	1	1	4
15.	In learning, the machine is traine correct answer (A) Supervised (C) Semi-supervised	d with input for which there is a known (B) Unsupervised (D) Time based analysis	1	2	4
16.	WAMP stands for (A) Web Application Messaging Protocol (C) Web Automated Messaging Protocol	(B) World Application Messaging Protocol(D) Web Application Monitoring Protocol		1	4
17.	Which of the following is not included in the (A) Value proposition (C) Financials	ne business model framework? (B) The customer (D) Software	1	2	5
18.	The third law of information states that (A) Information Is Perishable and It Depreciates Over Time (C) More Information Is Not Necessarily Better	(B) The Value of Information Increases with Accuracy(D) Information Is Not Depletable	1	1	5
19.	W3C stands for (A) World Wide Web Consortium (C) World Wide Web Console	(B) World Web Wide Consortium (D) World Web Wide Console	1	1	5
20.	observations	with regard to spatial and/or temporal (B) Sensor Hierarchy Ontology (D) Suggested Upper Merged Ontology	1	1	5
	PART - B (5 \times 4 = 2 Answer any 5 Qu	20 Marks)	Mark	s BL	CO
21.	Determine the IoT level for designing weal	th monitoring system?	4	3	1
22.	2. Write in detail about REST based communication API? What are the architectural constraints of REST?			4	1
23.	3. Differentiate cloud computing, fog computing and edge computing.			4	2
24.	Give the classification of things based of Outline each of them	4	4	2	
25.	List the sensors used in smart phone and w	rite short notes on any three.	4	4	3
26.	Justify the usage of supervised and unsuper	vised learning with some examples.	4	3	4
27.	Compare traditional business and business	model innovation.	4	4	5

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	Mark	CO		
28.	(a) With real time examples, write the significance of IoT enabling Technologies. (OR)	12	3	1
	(b) Identify the IoT level for home automation and explain in detail with suitable diagram.			
29.	(a) Illustrate each sub layer in communications with required diagrams. (OR)	12	3	2
	(b) Sketch the diagram of distributed compute and data management across an IoT system and explain.			
30.	(a) What are the criteria to be considered when selecting and dealing with connecting smart objects?	12	4	3
	(OR)			
	(b) List the IoT access technologies and write the significance of ZigBee IP.			
31.	(a) Give the classification of data analysis and describe their importance. (OR)	12	2	4
	(b) Explain Hadoop with neat architecture diagram.			
32.	(a) Draw and explain the business model for the intelligent truck. (OR)	12	3	5
	(b) Interpret the significance of revenue generation in IoT.			

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