υ.	services router.			Ė	1
29. a.	Explain in detail about big data storage tools.	10	3	4	1
	(OR)				
b.	Discuss briefly about the features of big data visualization layer.	10	3	3	1
30. a.	Determine the various communication models that can be used for weather monitoring systems. Which is more appropriate model? Describe the pros and cons.	10	4	5	2
b.	(OR) Determine the type of data generated in water quality monitoring. Describe the alternative approaches for storing the data.	10	4	5	2

* * * * *

			Sixth/S	Seven	th Semester					
					GE COMPUTING cademic year 2018-2019 to 2019-2020))				
Note:		_						1		
	 (i) Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet over to hall invigilator at the end of 40th minute. (ii) Part - B should be answered in answer booklet. 									
(ii)		I all	t - B should be answered in answer b	OOKIC						
Time:	2½	4 Ho	urs			Max.	Ma	rks:	75	
			$PART - A (25 \times 1 =$	= 25 N	Marks)	Marks	BL	CO	PO	
			Answer ALL Q							
	1.	1	1	1	1					
			devices?	(D)						
		(A)		` '	Actuators					
		(C)	Microprocessors	(D)	Micro controllers					
	2	IoT .	gateway must provide			1	1	1	2	
	۷,		Protocol abstraction	(B)	Data storage					
		` '	Security with hardware	` '	Simple and fast installation					
		(,0)	Society Will Hardware	(1)	Shipio and last instantation					
	3.	Whi	ch layer is used for wireless conn	ectio	n in IoT devices?	1	_1	1	1	
			Application layer		Network layer					
		(C)	Transport layer	(D)	Data link layer					
		* 1	2		, r ma	1	2	1	า	
	4.		tify the protocol used to link all o			1	2	1	2	
		` '	Net	• /	TCP/IP					
		(C)	HTTP	(D)	UDP					
	5	Whi	ch of the following is false about	IoT (devices?	1	2	2	2	
	٥.				IoT devices need micro					
		()	collecting and sharing data							
		(C)			IoT devices are completely safe					
		()	technology	()						
	_	E.s.		-11 J	wises in to a simple mlatform	1	1	2	1	
	0.	_	computing is utilized toa Integrate		Store	-	-	_	-	
8		` '	Task	• ,	Flexible					
		(0)	1 dok	(D)	Tiexible					
	7.	Wha	at is edge computing?			1	2	1	1	
			A new name of computing	(B)	An architecture that process					
		` '	1 5	` '	data as close as to its source as					
					possible					
		(C)	A type of computing that	(D)	Computing attempts when					
			leaves network teams on edge		standing on the edge of					

something

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8.	What is edge computing role in cloud(A) Edge computing is the cloud silver lining(C) They are the same	computing? (B) Edge computing could act as an alternative to cloud computing (D) They are unrelated	1	1	2	1	R.	19.	What is the sensor/ protocol used in GSN? (A) HTTP protocol (B) COAP protocol (C) MQTT protocol (D) XMPP protocol	1	2	4	2
9.	popularity? (A) IoT	contributed to edge computing's (B) The cloud	1	1	1	1		20.	What is the standard port number for secure MQTT? (A) 8000 (B) 8080 (C) 8882 (D) 8883	1	2	4	3
10.	(C) 5GWhat issue is common in many edge(A) Bandwidth	(D) Wi-Fi 6 computing challenges? (B) Latency	1	2	2	1		21.	Which interface does the finger print sensor use? (A) UART interface (B) COAP interface (C) SP1 interface (D) 12P interface	1	2	4	2
11.	(C) Network security What are the benefits of edge comput	(D) Network traffic	=: 1	1	3	1		22.	The core element in smart city is operated by (A) PaaS (B) SaaS (C) IaaS (D) IoT service provider	1	1	4	2
		(B) Edge computing only secured data about edges, including mountain edges and table edges						23.	ITS stands for	1	2	5	2
	(C) Edge computing security can respond in real time and host behavioral threat analytics								 (A) Internet travel services (B) Internet transportation security (C) Intelligent transportation security (D) Intelligent transportation services 				
12.	Which one of the following protocol: (A) COAP (C) HTTP	is light weight? (B) MQTT (D) IP	1	1	3	1		24.	The address of the original IEEE 802. MAC comes from (A) IP address (B) MAC address (C) Ethernet address (D) HTTP	1	2	4	2
13.	Which of the following layer provides (A) Logical layer (C) Transport layer		1	1	3	2		25.	The huge number of devices connected to the IoT has to communicate automatically, not via humans, what is this called? (A) Bot 2 bot (B) Machine 2 machine (C) Inter cloud (D) Skynet	1	2	5	2
14.	What is the range of Z-wave? (A) 30 to 100 m (C) 100 to 1000 m	(B) 300 to 1000 m (D) Only 10 m	1	1	3	3			$PART - B (5 \times 10 = 50 \text{ Marks})$ Answer ALL Questions	Marks	BL	со	PO
15.	Which of the following protocols doe (A) Zigbee smart energy (C) Wireless HART	s not exist at the data link layer? (B) Lora WAN (D) Secure MQTT	1,,,,	1	3	2	;	26. a.	List the challenges in IoT, and explain in detail about compatibility issues and connectivity issues.	10	2	1	1
16.	What is the role of big data in IoT's s (A) Filter the data (C) Store data	mart grid architecture? (B) Locked the data (D) Unlock the data	1	1	3	2		b.	(OR) A construction company is looking to improve safety and efficiency at its sites. What is an example of solution that requires the use of IoT?	10	3	1	1
17.	What is the main purpose of WoT (W (A) Improve the usability and	• /	1	1	4	2	;	27. a.	What are different layers of IoT protocol stack? Write the classification of IoT protocols?	10	3	2	1
10	interoperability (C) Complex the development	(D) Increase the cost	1	1	4	2		b.	(OR) Explain the working of MQTT. Compare MQTT and its secure version with the conventional internet protocols.	10	3	2	1
18.	Gateway provides the connection beto (A) Controller and device (C) Network and cloud	ween and (B) Network and controller (D) Cloud and controller	1	1	4	2	?	28. a.	Discuss briefly about any one of the fog simulator, compare the pros and cons with the other for simulator. (OR)	10	4	4	1

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