0.1.	technology versus NFC technology.				
ii.	What are the factors that make NFC a better alternative to RFID in certain application areas?	6	3	3	2
31. a.	Evaluate the differences between TCP, MPTCP and UDP.	12	3	4	2
	(OR)				
b.	Assess the similarities and differences between XMPP and AMQP service layer protocols.	12	3	4	2
32. a.	What are the key concepts of AWS IoT? Explain the role of AWS IoT in the content of the Internet of Things (IoT).	12	3	5	2
	(OR)				
ъ.	What are the steps for connecting a device to AWS IoT?	12	3	5	2

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B.Tech. DEGREE EXAMINATION, JUNE 2023

Sixth Semester

18CSE322T – INTERNET OF THINGS, ARCHITECTURE AND PROTOCOLS (For the candidates admitted during the academic year 2018-2019 to 2021-2022)

(i))	Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet shout to hall invigilator at the end of 40 th minute.	ıld be	hanc	led o	ver
(ii)	Part - B & Part - C should be answered in answer booklet.				
Time	e: 3	hours	. Mar	ks:	100	
,		$PART - A (20 \times 1 = 20 Marks)$	Marks	BL	СО	PO
		Answer ALL Questions				
	1.	What is the main purpose of basic device in the internet of things?	1	1	1	1
		(A) To collect and transmit data (B) To store and process data				
		(C) To provide a secure connection (D) To provide an interface between different networks				
	2.	The main purpose of a domain model in IoT is	1	1	1	1
		(A) To define the structure of the (B) To define the communication			3/	
		data protocols		i.		
		(C) To define the physical (D) To define the system architecture components				
	3.	What type of model is used to define the physical components of an IoT system?	1	1	1	1
		(A) Domain model (B) Information model				
		(C) Functional model (D) Communication model				
	4.	What is the most important element of an IoT security model?	1	1	1	1
		(A) Authentication (B) Encryption				
		(C) Access control (D) Authorization				
	5.	is the primary goal of a privacy policy in IoT.	1	1	2	1
	٥.	(A) To ensure privacy of personal (B) To protect against malicious				
		data attacks				
		(C) To provide access control to (D) To guarantee secure data				
		devices transmission		_		
	6	The first step in managing data from IoT devices is	1	1	2	1
	0.	(A) Collecting data from IoT (B) Analyzing data from IoT devices		,		
		devices				
25		(C) Storing data from IoT devices (D) Visualizing data from IoT devices				
	7.	What is the purpose of data validation?	1	1	2	1
		(A) To ensure data is accurate (B) To ensure data is consistent				

(D) To ensure data is organized

(C) To ensure data is secure

	What is XaaS? (A) Everything as a service (C) Exchange as a service	(B) Extensible as a service(D) Expand as a service		. 1			eri e	19	(A) Lov (C) Eas	e the benefits of wer cost of own sy integration ud services	ership	IoT? (B) Scalable and secure (D) All the above		1	1	5	1
9.	What is the maximum data rate of wir (A) 250 kbps (C) 1 Mbps	reless HART? (B) 500 kbps (D) 2 Mbps	1	1	3	1		20	. What typ (A) TLS (C) AES	S		IoT core use for communication (B) SS1 (D) All of the above	?	1	1	5	1
10.		l in DASH7? (B) Bluetooth (D) DASH alliance protocol (D7A)	1	1	3	1				"	•	$5 \times 4 = 20 \text{ Marks}$		Marks	BL	CO P	PO
11.		(B) Radio frequency identification(D) Radio frequency identifier data	1	1	3	1		21	. How doe between	es M2M and I		FIVE Questions one another and what is the	transition	4	2	1	2
12.	device Specify the range of NFC?		1	1	3	1		22	. What are		sign principl	les and capabilities needed to	build an	4	2	1	2
12	(A) 10 cm (C) 30 cm	(B) 20 cm (D) 50 cm	1	1	4	1				_		rove business processes?		4		2	
	Name the primary protocol used in th (A) HTTP (C) TCP/IP	(B) FTP (D) IP		•	•	•			. Compare		s and disadva	duce energy consumption? antages of wireless sensor netw	orks with	4		3	
14.	communications between two	Protocol (IP)? (B) To facilitate communication between two or more computers	1	1	4	1		26		e the features		and DTLS protocols used for	or secure	4	2	4	2
	or more computers (C) To provide a reliable way to transfer data between two or more computers	(D) To provide a way to access the world wide web						27	. How AW	VS CLI can be u	ased to connec	ect with AWS IoT core?		4	2	5	1
15.	UDP is (A) User datagram protocol	(B) Uniform datagram protocol	1	1	4	1					$\Gamma - C$ (5 × 12) answer ALL (2 = 60 Marks) Questions		Marks	BL	CO P	<u>?</u> 0
16		(D) Universal data protocol	1	1	4	1		28. a		e the key differ d to build an eff		een M2M and IoT and how ca ecture?	n they be	12	3	1	2
10.	(A) To provide reliable, connection oriented data transfer							b		e the main design rchitecture?	(OR) gn principles) s and capabilities required for d	leveloping	12	3	1	2
17.		ce endpoint for sending messages to the	1	1	5	1		29. a	. Analyze	the methods use	0	ng machine-to-machine data ger	neration.	12	3	2	2
	AWS IoT core service. (A) iot.us_west-2.amazonaws.com (C) iot.en_west-1.amazonaws.com	(B) iot.amazonaws.com(D) iot.ap_southeast-2.amazonaws.com						b		ne differences b standards.	(OR) between the l) IEEE 802.11 and IEEE 802.15	5 wireless	12	3	2	2
18.	(A) Amazon SNS	the AWS IoT core service end point? (B) Amazon SQS (D) Amazon kinesis	1	1	5	1	-	30. a		the potential se son to RFID tech		associated with using NFC tech	nnology in	12	3 (1)	3	2

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