Uall ⁻	Tiok	et Number :	
		R-15	
Code		Tech. II Semester Supplementary Examinations July/Aug 2021 Internet of Things	
Mana	۸ ۸ -	(Common to CSE & IT)	
		Time: 3 Ho er all five units by choosing one question from each unit ($5 \times 14 = 70$ Marks) *********	Urs
		UNIT-I	
1.	a)	Define Internet of Things? Explain about things/objects in Internet of Things with example?	8M
	b)	Explain in detail IoT architecture with neat diagram?	6M
		OR	
2.	a)	Define RFID? Explain principles of RFID?	7M
	b)	Discuss various components of RFID system?	7M
		UNIT-II	
3.	a)	With neat sketches, demonstrate enterprise IoT stack and it role in designing	
		of IoT applications.	7M
	b)	Demonstrate Solutions Layer and it roles and responsibility in enterprise IoT stack.	7M
1	Dioc	OR	
4.		cuss the following in detail a) IoT security	
	_	b) Cognitive Platform Layer	
		c) Communication Layer	
	(d) Analytics Platform Layer	14M
		UNIT-III	
5.		Explain in detail application areas of IoT in different industry manufacturing domains with example?	14M
		OR	
6.	a)	With an example explain the general connectivity pattern which allows devices to communicate to the core platform?	7M
	b)	Explain about the role of IoT in connected car solutions?	7M
		UNIT-IV	
7.	a)	Illustrate Wireless Radio Frequency Identification (RFID) Infrastructure for wireless embedded internet in IoT.	7M
	b)	Write in detail about ZigBee compact application protocol. OR	7M
8.	a)	With neat sketches explain The 6LoWPAN Architecture.	7M
	b)	Write short note on:	
		i. 6LoWPAN Format	
		ii. 6LoWPAN Addressing	7M
^	- 1	UNIT-V	
9.	a)	What are the factors considered when you choosing your platform?	7M
	b)	Write short note on:	
		i) Microcontrollers ii) System-on-chips.	7M
		OR	<i>t</i> 1VI

b) Create a Program for LED blinking in Arduino IDE?

10. a) Discuss Why Arduino is most preferable IoT Kit for many applications justify your

answer with example?

7M

7M

Hall Ticket Number :						

Code: 5G469

R-15

III B.Tech. II Semester Supplementary Examinations July/August 2021

Unix and Shell Programming

		Unix and Shell Programming (Information Technology)	
Μ	ax.	Marks: 70 Time: 3 I	Hours
	Ar	nswer all five units by choosing one question from each unit ($5 \times 14 = 70$ Marks	s)

1.	a)	Explain structure of UNIX	8M
	b)	Discuss the various modes in vi editor with examples	6M
	D)	OR	Oivi
2.	a)	Write about a UNIX file system	6M
	b)	What would be the effect of the following commands?	
		i) date ii) mkdir xyz iii) Is –la iv) rm myfile	8M
		UNIT-II	
3.	a)	write a shell program to count number of lines and spaces in a given file	8M
	b)	Discuss about any three filter commands with examples	6M
	,	OR	014
4.	a)	What is meant by pipe in UNIX? Explain any two commands with pipe	8M
	b)	Define an alias. Which shell(s) support aliases? Can an alias be used to rename a file? It it can, how?	6M
		UNIT-III	Olvi
5.	a)	Define an atom. Explain about different types of atoms with examples?	6M
0.	b)	Explain, how remote access can be performed in Unix?	8M
	D)	OR	Olvi
6.	a)	What are various types of editors available in Unix and explain them -	6M
	b)	Explain grep command with various options	8M
		UNIT-IV	
7.	a)	Give brief description about the variables present in korn shell?	6M
	b)	Draw and explain flowchart for korn shell startup process?	8M
		OR	
8.	a)	What are various file operators available in KORN shell	6M
	b)	write a shell script to Take 3 numbers input and find out largest number	8M
		UNIT-V	
9.	a)	Write about features C shell in UNIX	6M
	b)	What is an on-off variable? List some of these variables and their use in C Shell?	8M
4.6		OR	
10.	a)	Explain how the C Shell executes a command with an example?	8M
	b)	Describe mathematical expressions of C Shell Program?	6M

Hall	Tick	et Number :					
Code:	5 G 4	R-15					
		ech. II Semester Supplementary Examinations July/Aug 2021					
		Web Technologies					
. 4 -		(Information Technology)					
	_	Time: 3 Hours or all five units by choosing one question from each unit ($5 \times 14 = 70$ Marks) ***********************************					
		UNIT-I					
1.	a)	Define table. Explain table attributes and table tags with example.					
	b)	Discuss the various list tags in html.					
		OR					
2.	a)	Explain the different cascading style sheets with examples.					
	b)	Describe different elements of objects in Java script.					
•	,	UNIT-II					
3.	a)	Give a brief note on the Java Beans API.					
	b)						
4	۵)	OR Define VML What are the adventages of VML2 Evaloin					
4.	a) b)	· ·					
	D)	available with schema.					
		UNIT-III					
5.	a)	Describe how an HTTP servlet handles its client request					
	b)	Explain the life cycle of a servlet.					
		OR					
6.	a)	How to use Cookies and session for session tracking? Explain with an example program.					
	b)	Give a brief note on the javax. Servlet Package.					
		UNIT-IV					
7.	a)	Explain about JSP application designing with MVC.					
	b)	How to use Scripting Elements in JSP? Explain					
		OR					
8.	a)	Write a JSP program to implement database connectivity.					
	b)						
0	٥/	UNIT-V Evaloin about the components of ISD					
9.	a) b)	Explain about the components of JSP Describe the data sharing process between JSP's					
	b)	Describe the data sharing process between JSP's. OR					
		OR .					

10. a) List and explain the JSP implicit objects.

b) Write the working procedure for working with XML Data in JSP.

Page **1** of **1**