	На	Il Ticket Number :										
L	Cod	de: 5G16C										
	III B.Tech. II Semester Supplementary Examinations October 2020											
		Internet of Things										
		(Common to CSE & IT)										
	Mo	Time: 3 Hours										
		Answer all five units by choosing one question from each unit ( $5 \times 14 = 70$ Marks)  *********										
		UNIT-I										
1. a) Define Internet of Things? Explain about things/objects in Internet of Things with exam												
	b)	Explain in detail IOT architecture with neat diagram?										
2.	<b>a</b> )	OR Define REID2 Explain principles of REID2										
۷.	<ul><li>a) Define RFID? Explain principles of RFID?</li><li>b) Discuss various components of RFID system?</li></ul>											
	UNIT-II											
3.												
	b)	Demonstrate Solutions Layer and it roles and responsibility in enterprise IoT stack.										
	-,	OR										
4.		Discuss the following in detail										
		a) IoT security										
		b) Cognitive Platform Layer										
		c) Communication Layer d) Analytics Platform Layer										
		a) Analytics Flattorni Eayer										
		UNIT-III										
5.		Explain in detail application areas of IoT in different industry manufacturing domains with										
		example?										
		OR										
6.	a)	With an example explain the general connectivity pattern which allows devices to										
		communicate to the core platform?										
	b)	Explain about the role of IoT in connected car solutions?										
-	- \	UNIT-IV										
7.	a)	With a neat sketch explain the architecture of 6LOWPAN?										
	b)	List out the various benefits from 6LoWPAN?  OR										
0	۵)											
8.	a) b)	Briefly explain about Zigbee Compact Application Protocol Stack (CAP)?  With a neat sketch explain about Wireless RFID Infrastructure?										
	D)	UNIT-V										
9.	a)	What are the factors considered when you choosing your platform?										
٥.	b)	Write short note on:										
	-,	i) Microcontrollers										
		ii) System-on-chips.										
		OR										
10.	a)	Discuss Why Arduino is most preferable IoT Kit for many applications justify your answer with example?										

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

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Code: 5G468										K-15		

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		III B.Tech. II Semester Supplementary Examinations October 2020	
		Python Programming	
		(Information Technology)	
	Mc	ax. Marks: 70 Time: 3 Hours	
		Answer all five units by choosing one question from each unit ( $5 \times 14 = 70$ Marks)	
		UNIT-I	
1.	a)	Write a python program to perform addition, subtraction, multiplication, integer division, truncation division on two values?	10M
	b)	What is literal? List out kinds of literals in python with example?	4M
		OR	
2.	a)	Explain the process of computational problem solving?	7M
	b)	Discuss in brief about operators in python with an example?	7M
		UNIT-II	
3.	a)	Write a Python program using while loop to print n numbers divisible by 5.	7M
	b)	Write a Python program to find factorial of first n numbers.	7M
		OR	
4.	a)	What is a List in Python? Discuss about any three methods of list with example	7M
	b)	Discuss about iterative statements with an example program	7M
		UNIT-III	
5.		What is a function? What are function arguments? Explain different kinds of arguments with	
		an example program.	14M
		OR	
6.	a)	What is an object? How they are represented in python, give an example	10M
	b)	Explain about memory deallocation and Garbage collection in python?	4M
		UNIT-IV	
7.	a)	What are the two ways of importing a Module? Which one is more beneficial?	7M
	b)	Write a Python program to copy a file from another file	7M
		OR	
8.	a)	How do we create Strings? Discuss about String Methods in brief	7M
	b)	What is an Exception? How do we create user defined Exception? Explain with an example	
		program.	7M
		UNIT-V	
9.	a)	Explain about Dictionary type in python?	10M
	b)	Compare Iteration vs recursion?	4M
40	_ \	OR  Explain about Requiring problem Solving?	01.4
10.	a)	Explain about Recursive problem Solving?	8M
	b)	Write a brief note on SET data type?  ***	6M
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		III B.Tech. II Se	mester			-		inatio	ns Oct	obei	r 2020		
				web Inform )	Tech		•	v 1					
		x. Marks: 70 Answer all five unit							nit 15 v 1		ime: 3 Hours		
		Answer all five offin	3 Dy Cric	osii ig oi	****		1101116	CITO	1111 ( 3 %	14 – 7	O Marks J		
					UNIT-	<b>-</b> I							
1.	a)												
	b)	Discuss the various list tags in html.											
		OR											
2.	a)	Write a Java script for Registration form email validation.											
	b)	Explain the different cascading style sheets with examples.											
2	۵۱	What is YML2 Explain the various features of YMI											
3.	a) b)	a) What is XML? Explain the various features of XML.  Design an XML scheme for hespital information management. Include every features.											
	D)	Design an XML schema for hospital information management. Include every feature available with schema.											
					OI	R							
4.	a)	Define a JavaBear	า? Write t	he advar	ntages	of Jav	aBeans	S.					
	b)	List all the classes	and inter	faces in	JavaBe	eans A	νPI.						
					UNIT-	-111							
5.	a)	Explain how the HTTP POST request is processed using servlets.											
	b)	With the help of a neat diagram, explain the servlet architecture.											
		<b>5</b>		5	Ol	R							
6.	a)			-	_								
	b)	What is session tra	icking? E				anisms	of sess	sion track	ang			
7.	a)	Evolain the henefit	hy usina		UNIT-		ıta husi	inass Ic	aic from	nresc	antation		
7.	a)	Explain the benefit by using JavaBeans to separate business logic from presentation markup within the JSP environment.											
	b)												
					Ol	R							
<ol> <li>Assume that you have a valid database of B.Tech students. Write a JS result portal.</li> </ol>									ite a JSF	' prog	ram for the		
	b)	Give a brief note o	n Anatom	ny of a JS	SP Pag	je.							
					UNIT-	-V							
9.	a)	Describe implicit J	-										
	b)												
10.	a)	Describe error han	dling and	l dehuaa	OI ing me		in .ISP						
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b) Discuss the JSP standard actions.

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