Hall	Hall Ticket Number :													
Cod	Code: 5G161 R-15													
		III B.Tecl	n. II Sen	nester	Regu	Jar E	Exar	ning	atio	ns N	1ay 20	18		
			Crypto		-				Sec	urity	/			
May		nrks. 70		(Con	nmon	to C	SE 8	۰IT)				Time	<u>⊃∙ 3 ⊔</u> ∩	urc
-	Max. Marks: 70 Answer all five units by choosing one question from each unit (5 x 14 = 70 Marks)													

1	UNIT–I 1. a) Differentiate between active and passive attacks								6M					
1.	a) b)				•				1 hv	тл	– Star	udard [:]	ization	OIVI
	0)	sector and il			•		•		•					8M
						OR	2							
2.	a)	Explain in bi	rief Intern	et RFC	public	ation	proc	ess	with c	diagr	am			6M
	b)	Explain netv	vork secu	irity moo	del wit	n a ne	eat di	iagra	Im					8M
						_	IT–II							
3.	a)	With the hel	•	at diagr	am, ex	cplain	the o	data	flow	proc	ess in c	onver	ntional	6M
	b)	encryption p Explain key d		policy u	sed for	end to	o enc	1 enc	rvntio	n (c	onnectio	n oriei	nted)	8M
	5)			poneya		OR			rypuo			1 01101		Olvi
4.	a)	Discuss cipł	ner block	chainin	g mod	e with	diag	gram	in de	etail				8M
	b)	Illustrate De			-									6M
					Ĩ	UNI	T–III							
5.	a)	Explain diffe	rent auth	enticati	on pro	cedur	es u	sed i	in X.5	509				6M
	b)	Discuss ope	ration of	PGP										8M
						OR								
6.	a)	Differentiate					V5							6M
	b)	What is S/M	INE and	explain	In deta		T 11/	,						8M
7.	a)	With a neat	diagram	exnlain	a typi		T–IV enar		f IPS	ec u	sade			ЗM
	b)	What are the	•	•			onai	10 0		00 0	bugo			4M
	c)	Explain Dua												7M
	,	·	U		•	OR	2							
8.	a)	What select				•								6M
	b)	List the diffe	rent mes	sage ty	bes in			Ishal	ke Pr	otoc	ol			8M
0		\//rite_abort_r	actor on			UN	T–V							
9.	a)	Write short r (i) Troja	n Horses	:										
		(ii) Back												
		(iii) Zomł												6M
	b)	Explain Net	work Man	agemei	nt Arch	nitectu	ire							8M
4.0				<i>, ,</i>		OR								
10.	a) b)	List the desi									types c	IT TIPN	walls	8M GM
	b)	What are the	e ameren	i approa			usio	n dei	lectio	n				6M

Hall	Hall Ticket Number :															
Code	Code: 5G464															
	III B.Tech. II Semester Regular Examinations May 2018															
							•	ter I					- / -	-		
				(Infor	mat	ion T	[echr	nolc) gy						
		rks: 70 all five units b	w cł		ina (one	aue	stion	fror	n ea	ach	unit	(5 x 1.		e: 3 Hc 70 Marl	
7 (115 * *			y Ci	100.	, in i		*****					01111		т /	o man	(5)
					_	_		UNI								
1.	a) b)	Define user				•		•		المعد	1	4	- f 1 -			7M
	b)	Justify that hardware an												e co	omputer	7 7M
				i i i i i i i i i i i i i i i i i i i		lot a		OR	siae	lou l		1 400	, grit			,
2.	a)	Discuss the	bene	fits o	of goo	od de	esign	and	also	its ir	npac	t on	Proces	sing	Time.	7M
	b)	Present the e	voluti	onar	у арр	roacł	n to G	Graphic	cal U	ser l	nterfa	ice in	screen	desi	gning.	7M
								UNI								
3.	a)	Theoretically	•				•			•				•	are the	e 7M
	b)	important Hu Illustrate the											-	-		71VI 7M
	0)		PIIIK	Sipio	0 01 0	5001	intoi	OR	nop	0000						7101
4.	a)	As a part of b	ousin	ess	defin	ition	and		eme	ents a	analy	sis, c	discuss	som	ne of the	;
		techniques f	or de	term	nining	, req	uiren	nents	usin	g dir	ect n	netho	ods.			7M
	b)	Graphics re							e u	ser	inter	ace	with p	opul	larity of	f 7M
		graphics. Ju	uge i	ne s	laten	nent		UNIT								7 111
5.	a)	Present com	mon	info	rmati	on o	rderi			es.						7M
	b)	Propose the						•			etriev	/al or	n web.			7M
								OR								
6.	a)	Elaborate th	•				•			Ŭ						7M
	b)	Explain the t	echn	olog	jical d	consi	dera			erfac	e de	sign				7M
7.	a)	Classify vari	oue r	noni	is an	d av	nlain	UNIT		orial	hy.					7M
7.	а) b)	Justify that the					•		•		•	n inf	ormatic	on flo	W	7M
	~)	••••••••••••••••••••••••••••••••••••••		•				OR								7101
8.	a)	Identify the c	chara	cter	istics	and	capa	abilitie	s of	vario	ous c	levic	e-base	d coi	ntrols	7M
	b)	Discuss vari	ous c	comp	ooner	nts re	elated	d to te	ext a	nd m	nessa	ages				7M
								UNIT	- -V							
9.	a)	List out the s	•						•			•	•			7M
	b)	Give a brief	note	on t	he fe	ature	es of		nter	face	builc	ling t	ools?			7M
10.	a)	Advantages	and	dic	advo	ntar		OR of Au	tom	atic	sner	ch r	ecoani	ition	hy the	
10.	aj	computer sy			auva	may	53 (n Au			shee		ecogin		by the	, 7M
	b)	Present the			ristics	and	l cap	abilitie	es of	f vari	ious	point	ing dev	/ices		7M
							**	*								

Hall	Tick	et Number :	
Code	•• 5G	R-15	
Coue	. 30	III B.Tech. II Semester Regular Examinations May 2018	
		Internet of Things	
		(Common to CSE & IT)	
-		arks: 70 er all five units by choosing one question from each unit (5 x 14 = 70 Marks)	Urs
,	115 * *	**************************************	
		UNIT–I	
1.	a)	Who is making Internet of Things? Explain each roles and responsibilities.	7M
	b)	Demonstrate design principles of connected devices in the Internet of Things. OR	7M
2.	a)	Discuss in detail about Radio Frequency Identification Technology.	10M
	b)	With neat diagram, explain generic block diagram of Internet of Things.	4M
		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
4	Disc	OR cuss the following in detail	
ч.		a) IoT security	
		o) Cognitive Platform Layer	
	(c) Communication Layer	
	(d) Analytics Platform Layer	14M
_	,		
5.	a)	Draw a flow chart and explain, the functionality of the home intrusion detection IoT system "to send email alert when an intrusion is detected".	8M
	b)	With neat sketches, explain an IoT application based on Asset Management.	6M
	0)	OR	0111
6.	a)	Draw the domain model of Smart parking Internet of Things system in smart	
		cities application.	7M
	b)	Discuss about how IoT is used in Condition Based Maintenance application	7M
7		UNIT-IV Illustrate Wireless Radio Ergguenav Identification (REID) Infrastructure for	
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.	7M
		OR	
8.	a)	With neat sketches explain The 6LoWPAN Architecture.	7M
	b)	Write short note on:	
		i. 6LoWPAN Format ii. 6LoWPAN Addressing	7M
			7 111
9.	a)	Design a Led lamp IoT application. "The LED lamp on or off state is depends	
0.		on the IoT application".	7M
	b)	What is Arduino? Explain the role of Arduino in development of Internet of	
		Things application.	7M
40		OR What are the major factors that are influences the design on Internet of	
10.	a)	What are the major factors that are influences the design an Internet of Things application?	7M
	b)	Write short notes on the following:	
	,	i. Microcontrollers	
		ii. Raspberry Pi	7M

Hall	Tick	et Number :	
		R-15	
Code	: 3G	III B.Tech. II Semester Regular Examinations May 2018	
		Python Programming	
		(Information Technology)	
-		arks: 70 Time: 3 Hours	S
ŀ	Answ	ver all five units by choosing one question from each unit (5 x 14 = 70 Marks)	
4	-)	UNIT-I	714
1.	a) Þ	Discuss in brief about operators in python with an example?	7M
	b)	List any four built-in String functions in Python	7M
0	-)	OR	714
2.	a)	Write a Python program to swap two variables without using temporary variable.	7M
	b)	Discuss about the advantages and applications of Python in detail.	7M
3.	a)	UNIT–II Write a Python program using while loop to print n numbers divisible by 5.	7M
5.	a) b)	Write a Python program to find factorial of first n numbers.	7M
	0)	OR	7 101
4.	a)	What is a List in Python? Discuss about any three methods of list with example	7M
ч.	b)	Discuss about iterative statements with an example program	7M
	5)		7 1 1 1
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 instances.	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
0	-)	UNIT-V	714
9.	a) Þ	What is Inheritance? Explain inheritance in Python with an example	7M 7M
	b)	Discuss about Iteration and Recursion with suitable example	7M
10	2)	OR What is a Distingery? How do we create it? How do we cannot from	
10.	a)	What is a Dictionary? How do we create it? How do we access elements from Dictionary? Explain with an example.	7M
	b)	What is Polymorphism? Discuss about Polymorphism with a function with	, 101
	~)	suitable example.	7M
		• ***	

Hall	Hall Ticket Number :						
Code	Code: 5G469 R-15						
		III B.Tech. II Semester Regular Examinations May 2018 Unix and Shell Programming					
		(Information Technology)					
		Time: 3 Hou all five units by choosing one question from each unit (5 x 14 = 70 Mark ********					
		UNIT–I					
1.	a)	Differentiate textual, Disk utility commands with any 3 example commands	7M				
	b)	How Symbolic method to establish security different from octal method? Elaborate with examples?	7M				
2		OR Differentiate between act linking and bard linking Methods while establishing					
2.	a)	Differentiate between soft linking and hard linking Methods while establishing link among two files?	7M				
	b)						
	,	to forcefully delete a directory consists of another sub directory?	7M				
		UNIT–II					
3.	a)	Differentiate background process and foreground process with suitable					
	۲	examples?	7M 7M				
	b)	Explain in detail about head and tail command operations with examples?	7M				
4.	a)	Draw the flow model of an Unix session with brief view and elaboration	7M				
	b)	What is a job? Discuss job control mechanism with practical scenario?					
		Differentiate fore ground and Back ground jobs?	7M				
F	2)	UNIT-III					
5.	a)	Write an awk script whose input is two files and output is a single merged file (line1 in file1 followed by line1 in file2 and so on)?	8M				
	b)		-				
		an class room consists of 'n' number of students?	6M				
c	2)	OR Discuss verieus remete cosses methods in Univ	714				
6.	a) b)	Discuss various remote access methods in Unix Highlight the key features of grep, egrep and fgrep with examples?	7M 7M				
	0)	UNIT-IV	7 111				
7.	a)	Differentiate user defined and environmental variables in K Shell? Write a					
	,	program to perform swapping operation on two variables with environmental					
		variables?	7M				
	b)		714				
		environmental variables. OR	7M				
8.	a)	Explain Startup Script, Command history and Execution process in K shell	8M				
	b)	Write a korn shell script to verify the equivalence of two strings UNIT-V	6M				
9.	a)	Explain control structures involved in C shell with examples	10M				
-	b)	Write a C shell script to extract back up data from achieve file	4M				
	,	OR					
10.	a)	Elaborate on (i) History (ii) Exit Status in C Shell	8M				
	b)	Write a C shell script to retrieve the login sessions from Monday to Friday? ***	6M				

Hall	Ticke	et Number :					
Code: 5G46A							
	III B.Tech. II Semester Regular Examinations May 2018						
		Web Technologies					
		(Information Technology)					
	Max. Marks: 70 Answer all five units by choosing one question from each unit (5 x 14 = 70 Marks)						
, (15 *** C	**************************************					
		UNIT–I					
1.	a)	How DHTML is different from HTML? Explain in detail.					
	b)	Explain about CSS in detail. Create a CSS file with different properties.					
2.	2)	OR Describe different lavouts available in creating web pages					
۷.	a) b)	Describe different layouts available in creating web pages. Explain the following terms related to CSS.					
	5)	(i) Font Size (v) Text transformation					
		(ii) Font weight (vi) Text alignment					
		(iii) Font stretch (vii) Padding					
		(iv) Text decoration					
		UNIT–II					
3.	a)	Describe the elements in XML and also different types of content of elements.					
	b)	List and explain the Advantages of Java Beans.					
4	-)	OR Fundain haw an XMI. Ochama is anatad					
4.	a) b)	Explain how an XML Schema is created.					
	b)	Write acronym for XML? Why XML is used? Explain					
5.	a)	Explain how the HTTP POST request is processed using servlets.					
•	b)	With the help of a neat diagram, explain the servlet architecture.					
	,	OR					
6.	a)	Discuss the javax. Servlet. Http Package					
	b)	What is session tracking? Explain different mechanisms of session tracking					
		UNIT-IV					
7.	a)	Discuss about various categories of JSP tags. Explain each of them with syntax					
	L)	and suitable examples.					
	b)	Write a JSP to demonstrate the usage of the page and include directives OR					
8.	a)	Explain the JSP Application Design with MVC.					
0.	b)	How to deal with syntax errors in JSP page? Explain.					
	0)						
9.	a)	Describe the Sharing Data Between JSP Pages.					
	b)	Explain the Error Handling and Debugging in JSP.					
		OR					
10.	a)	Is it possible for one JSP to extend another Java class if yes how? Explain					
	b)	Give a brief note on implicit JSP objects.					
