	Ha	all Ticket Number :													
	Co	de: 4G164										J	R-1	4	
		III B.Tech. II S	emes	ter Su	pple	eme	enta	ry E	xan	nina [.]	tion	is May	2018		
					mpu			•				,			
				(Co	mmo	on t	o CS	E &	IT)						
		ax. Marks: 70 Iswer all five units b	w cho	osina	one (AL 16	stion	fror	m 60	nch i	ınit		Time: 3 F		
	ΛH	swer dir iive oriiis k	by Clic	JOSII IG	*	400 ****	****	11101	11 60		ווו וכ	(3 × 14	- 70 7010	airs j	
							UNIT	-							
1.	a)	Explain the application areas of Computer Graphics?													
	b)	Discuss in detail about Random Graphics feature?												7M	ı
						OF	₹								
2.	a)	Explain about graphics monitors and work stations												7M	ı
	b)	Discuss in detail about Raster Graphics feature?											7M	ı	
		UNIT-II													
3.	a)	obtain the transfromation matrix for rotating an object about a specified pivot point 7N												7M	ı
	b)	Write down and explain the midpoint circle drawing algorithm. Assume 10 cm as the													
		radius and co-ordinate origin as the centre of the circle											7M		
		D : 1 44	6 1 41			OF									
4.	a)													9 7M	
	b)	first octant of the origin centered circle. Explain two dimentional translation and scaling with an example												7M	
	D)	Explain two aimona	orial ti	ariolatic	ir aric		UNIT]	латтр	.0			7 101	
5.		Explain Cohen Suth	nerland	l line cli	ppina				l h an	exam	nple.			14M	
•		,			11 3	OF									
6.		Define Parametric	cubic c	urves &	Expl			with	Fxar	moles	;?			14M	
Ο.			345.00	u. 100 0	· _ / (Þ /		JNIT-]		•				
7.		Differentiate paralle	l and p	erspect	tive pr				deri\	e the	ir pr	oiection	n matrices	. 14M	
		•	•	•	•	, OF					•	•			
8.		With suitable exam	ples. e	xplain a	all 3D			natio	ns					14M	
Ο.			, , .				UNIT								
9.	a)												7M		
	b)	Explain depth- buffe		•										7M	
	- /	1	95	-		OF	₹								
Λ	a)	Explain the scan lin	e meth	nod for	visihle			dete	ction	?				7M	

b) Discuss about Classification and back-face detection methods

7M

III B.Tech. II Semester Supplementary Examinations May 2018

Cryptography and Network Security

(Common to CSE & IT) Max. 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) Differentiate between active and passive attacks 6M b) What are the different security services provided by ITUT - Standardization sector and illustrate different mechanisms used to implement those services 8M 2. a) Explain in brief Internet RFC publication process with diagram 6M b) Explain network security model with a neat diagram M8 UNIT-II 3. a) With the help of a neat diagram, explain the data flow process in conventional encryption process 6M b) Explain key distribution policy used for end to end encryption (connection oriented). M8 OR a) Discuss cipher block chaining mode with diagram in detail M8 b) Illustrate Design objectives of HMAC 6M **UNIT-III** 5. a) Explain different authentication procedures used in X.509 6M b) Discuss operation of PGP M8 OR a) Differentiate between Kerberos V4 and V5 6M 6. b) What is S/MIME and explain in detail M8 **UNIT-IV** 7. a) With a neat diagram explain a typical scenario of IPSec usage 3M b) What are the different IPSec services 4M c) Explain Dual Signature in SET protocol 7M OR 8. a) What selectors are used in SPD entry 6M b) List the different message types in SSL Handshake Protocol M8 UNIT-V 9. a) Write short notes on (i) Trojan Horses (ii) Back Door (iii) Zombies 6M b) Explain Network Management Architecture M8 10. a) List the design goals of a firewall and what are the different types of firewalls M8 b) What are the different approaches to intrusion detection 6M

R-14

Hall Ticket Number :							
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Code: 4G163

III B.Tech. II Semester Supplementary Examinations May 2018

Linux Programming

		Linux Programming	
		(Common to CSE & IT)	
Max.	_		rs
Ar	ıswe	r all five units by choosing one question from each unit ($5 \times 14 = 70$ Marks) *********	
		UNIT-I	
1.	a)	Explain about security file permissions?	7M
	b)	Explain in detail about awk?	7M
		OR	
2.	a)	Distinguish between process utilities and disk utilities?	8M
	b)	Write about filters?	6M
		UNIT-II	
3.	a)	Explain about various control structures and arithmetic in shell script with	
		examples?	6M
	b)	Write a shell program to find factorial of a given number?	8M
		OR	
4.	a)	Explain in detail about shell functions?	7M
	b)	What is the role of here documents in shell programming and explain about file	
		name substitution in shell?	7M
_	,	UNIT-III	
5.	a)	Write short notes on the following commands	
		i. chown	
		ii. chmod iii. link	6M
	h)		8M
	b)	Distinguish file locking and record locking?	OIVI
c	۵)	OR Evaloin the Univ File Structure?	71.4
6.	a)	Explain the Unix File Structure?	7M
	b)	Discuss about system calls in files? UNIT-IV	7M
7.	a)	What is a signal? Explain about any three signals with their syntax?	6M
,.	b)	What is a zombie process? Explain its importance in Unix programming?	8M
	D)	OR	Olvi
8.	۵)	Explain in detail about process API's?	8M
0.	a)	Write about kernel support for signals?	6M
	b)	UNIT-V	OIVI
9.	a)	What are different IPC techniques? Explain?	8M
•	b)	Discuss about UNIX System V APIs for Semaphores?	6M
	٠,	OR	
10.	a)	Discuss about UNIX System V APIs for Shared Memory	6M
	b)	Explain about the concepts of Semaphores in detail?	8M
	٠,	Explain about the concepte of contaphotoe in dotail:	J171

Hall 7	Γick	et Number :												D 14	_
Code: 4G463											R-14	_			
	Ш	B.Tech. II S						•					ay 20	18	
			Objec					-		l De	esig	n			
Max.	. Mc	arks: 70		(C	omn	ПОП	10 C	SE 0	x 11)				Time	e: 3 Hours	S
A	nsw	er all five uni	ts by ch	oosin	g one		estio ****	n fro	m ec	ıch ı	unit (5 x 14	= 70 N	√arks)	
UNIT-I 1. a) What is the importance of modeling? Explain the principles of modeling.															
1.	a)		•			•		olain	the p	orinc	iples	of mo	deling.		
b) How to model a system's Architecture?															
2.		OR Explain the conceptual model of the UML?													
							UNI								
3.	a)	What is an ir								•	•	lain wi	th exa	mple.	
	b)	With respect	to UML	_, Exp	lain th	ne ro			oility &	& Sc	ope.				
4.	a)	What is use	of Adva	nced	Class	ses?	OR Slax E		s pro	perti	es.				
	b)														
				•											
		UNIT-III How Collaboration diagram differs from Sequence Diagram, explain with an													
5.	a)	How Collabo	oration	diagra	m dit	ffers	from	Sec	quenc	e D	iagra	m, exp	plain v	vith an	
	b)	What is use Sequence D		•	e Dia	agrar	n an	d ex	plain	the	imp	ortant	eleme	ents of	
•	-1	Define Hee	014	/la a 4 a 2	41		OR		!	-l	al 4 a	-	41		
6.	a)	Define Use case? What are the points to be considered to model the context of a system using Use case diagram?													
	b)	Draw the Us	•			•		Mana	aaem	ent S	Svste	m?			
	,			3 -			,		-5 -		,				
							UNIT	-IV							
7.		Write short r										_			
		i) Even	ts and S	Signals	s ii)) Pro	cess O R		Thre	ads	iii)	State I	Diagra	ms	
8.	a)	Explain the r	ole of F	roces	s and	d Thre			how	it is	used	in mo	deling		
	b)	Draw the Sta											Ū		
							UNIT								
9.	a)	Explain the						gram	and	also	exp	lain th	e distr	ibution	
	b)	of artifacts u Draw the Co	_	-		-		v Sv	stem						
	~,		,	– iu	J. WILL			$_{r}$ $ _{y}$							

OR Explain about Deployment diagram? How it is useful in modeling of an

embedded system? Draw the Deployment Diagram for Library System?

10.