	Ha	all Ticket Number :													
	Co	de: 4G164										I	R-1	4	
		III B.Tech. II S	emes ⁻	ter Su	pple	me	ntai	ry E	xan	nina [.]	tion	s May	/ 2018		
					mpu			•				,			
				(Co	mmo	on to	CS	E &	IT)					_	
		ax. Marks: 70 Iswer all five units b	ov cho	osina	one (מבונר	tion	fror	m 🛆 (nch i	ınit		Time: 3 F		
	ΛH	swer dir iive oriiis k	Ју СПО	Osii ig	*	****	***	1101	11 60		ווו וכ	(3 × 14	r — 70 mc	11 12)	
						Į	JNIT	– I							
1.	a)	Explain the application areas of Computer Graphics?												7N	ĺ
	b)	Discuss in detail about Random Graphics feature?											7N	1	
						OR									
2.	a)	Explain about graphics monitors and work stations										7N	1		
	b)	Discuss in detail about Raster Graphics feature?										7N	I		
		UNIT-II													
3.	a)	obtain the transfromation matrix for rotating an object about a specified pivot point 7N										7N	İ		
	b)														
		radius and co-ordinate origin as the centre of the circle										7N	l		
		D : 1 44				OR									
4.	a)	·										: 7N	1		
	b)	first octant of the origin centered circle. Explain two dimentional translation and scaling with an example											7N		
	D)	UNIT-III												7 10	•
5.		Explain Cohen Suth	nerland	line cli	ppina				l h an	exam	nple.			14N	1
•		,			11 3	OR									
6.		Define Parametric	cubic cu	ırves &	Fxpl			with	Exar	moles	;?			14N	1
Ο.			00010 00		· = //p · ·		NIT-		 		•			1 110	
7.		Differentiate paralle	el and pe	erspect	tive pr				deriv	e the	ir pr	oiection	n matrices	. 14N	1
		•	•	•	•	, OR					•	•			
8.		With suitable exam	ples. ex	olain a	all 3D			atio	ns					14N	1
Ο.			, , .				JNIT-]					•	
9.	a)													7N	١
	b)	Explain depth- buffe												7N	
	- /	1	- g	•		OR									
Λ	a)	Explain the scan lin	e meth	nd for v	visihle			dete	ction	?				71/	1

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 :							
	•					•	R-14

Code: 4G163

III B.Tech. II Semester Supplementary Examinations May 2018

Linux Programming

		(Common to CSE & IT)	
Мах.	Mar	,	rs
	_	er 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
5.	۵)	Write short notes on the following commands	
Э.	a)	i. chown	
		ii. chmod	
		iii. link	6M
	b)	Distinguish file locking and record locking?	8M
	υ,	OR	Oivi
6.	a)	Explain the Unix File Structure?	7M
O.	b)	Discuss about system calls in files?	7M
	D)	UNIT-IV	/ IVI
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
		OR	
8.	a)	Explain in detail about process API's?	8M
	b)	Write about kernel support for signals?	6M
		UNIT-V	
9.	a)	What are different IPC techniques? Explain?	8M
	b)	Discuss about UNIX System V APIs for Semaphores?	6M
		OR	
10.	a)	Discuss about UNIX System V APIs for Shared Memory	6M
	b)	Explain about the concepts of Semaphores in detail?	8M

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		l	II B.Tech. II			•						•
			Mana	ageria						al An	alysis	
		Max	. Marks: 70		(Cor	nmon t	O EEE &	& C3	L)		Tin	ne: 3 Hours
	Δ			by cho	osing o	one qu	estion f	rom	eac	ch unit		4 = 70 Marks
				,	_	****	****				`	
						UNIT-	I					
		Explair	how Manage	rial Eco	nomics			her a	cade	emic dis	ciplines	3.
,		- "					OR	_				
. a)	•		the Law of De				•			,		
b)	•	Foreca	•	and by	"Deman	a Forec	asting":	⁄ Exp	iain a	any tou	r metno	ods of "Demar
		1 01000	oung .			UNIT-	.11					
. a))	What d	lo you mean b	v Isogua	ants? Ex			ures.				
b)	•		s about Cobb-	•		•						
,	,			J			OR					
. a))	What is	BEP?									
b)	•						_	•	ınit is	s Rs 50	and Va	ariable Cost pe
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		Rs 60,0	•			,						
						UNIT-	III					
. a))	Differe	ntiate betweer	Perfec	t and Im	perfect	Markets	S.				
b))	Illustra	te the price de	termina	tion in c	ase of M	lonopol	у.				
,					5		OR					
. a)	,		the difference				-	•				
b)	•		io you underst int Stock Com	•	Joint Sto	ock Com	pany?	Expia	ain ai	merent :	stages	in the formation
		J. J. J.		,		UNIT-	IV					
. a))	Define	Capital. Expla	in its Si	gnifican	ce and 1	ypes of	f Cap	ital.			
b))	What a	re the main fe	atures c	of differe	nt sourc	es of sh	nort-	term	finance	?	
						(OR					
. a))	Explair	the important	t feature	s of Cap	oital Bud	lgeting.					
b)	,		•	•							20,00	0 and a life of
		years.	The following								0 111	
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			3	12	,500	1	2,500			12,250)	
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			Total (Rs)	50	,000	5	0,000			50,000)	
		Determ	ine Accounting	Rate of F	Return or	n (a) Ave	rage Ca	pital a	and (b	o) Origin	al Capit	al Employed.
						UNIT-						
. a)	•	•	the basic acc	•	•	ts and c	onventi	ons.	Give	examp	les.	
b))	What is	S Journal? Hov	w is it ru	led?							
۵,	١	As a fin	ancial analyst	what no	Acquition		OR Vou tak	a wh:	la int	arnratin	a ration	meaning-fully
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Hall	Γicke	et Number :												D 14	
Code: 4G463												R-14			
	III	B.Tech. II S						-					ay 20	18	
			Objec					_		d De	esig	n			
Max.	. Mc	ırks: 70		(C	omn	ПОП	10 C	SE 6	x 11)				Tim	e: 3 Hour	S
A	nsw	er all five uni	ts by ch	oosin	g one		estio	n fro	m ec	ich (unit (5 x 14	= 70 N	Marks)	
							UNI	T–I							
1. a) What is the importance of modeling? Explain the principles of model.b) How to model a system's Architecture?											of mo	deling			
2.		OR Explain the conceptual model of the UML?													
							UNI	Γ–II							
3.	a)	What is an ir								•	•	lain wi	th exa	mple.	
b) With respect to UML, Explain the role of Visibility & Scope.															
4.	a)	What is use	of Adva	nced	Class	ses?	OR Expla		s pro	perti	es.				
	b)	Write short notes on Object Diagrams													
_	,	0 !! !			1		UNIT			_				***	
5.	a)	How Collabo example	oration	diagra	m di	iters	trom	Sec	quenc	ce D	ıagra	m, ex	plain v	vith an	
	b)	What is use Sequence D		•	e Dia	agrar	n an	d ex	plain	the	imp	ortant	eleme	ents of	
•	- \	D.C. H.	0 \4	/I ((1		OR			.1	.1.1.		d	-11	
6.	a)	Define Use case? What are the points to be considered to model the context of a system using Use case diagram?													
	b)	•													
							UNIT	-IV							
7.		Write short r	notes or	1											
		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	ate Cha	rt Diag	gram	for L	ibrar	у Ма	nage	men	t sys	tem			
0	c)	Evaloia tha	ni iro o c	of C	~ ~ ~		UNIT		ond	oloc	0.40	علد منما	a diat:	ibution	
9.	a)	Explain the of artifacts u						yrarn	and	aiso	exp	iain th	ย นเรเเ	เมนแบท	
	b)	Draw the Co	_	-		-		y Sy	stem						

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

embedded system? Draw the Deployment Diagram for Library System?

10.