Hall Tic	:ket Number :														
Code :								<u></u>						<b>R-1</b> 1	I/R-13
	II B.Tech. I Ser	mester	Sup	olen	nent	arv	Fxa	min	atio	ns N	۸a	v/ li	Ine.	2016	I
•			oma			•					10	,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2010	•
	x. Marks: 70		(	nform	ation	Tech	nnolo	gy)				т:		03 Ho	
Ma	x. Marks: 70		Ansy	wer	any t	five (	aue	stion	S				ne:	<b>U</b> З ПО	ours
	All	Questic			equo		-			ks ec	bc	n)			
1. a)	Write an algorit	thm to c	onver	t NFA	A to D	0FA v	vith p	orope	er Ex	amp	le?	•			10M
b)	b) What are the differences between NFA and DFA?											4M			
			<b></b>	at cost	fue e			/1 - 1		-4 D -		<b>at</b> !		ما ال	1
z. a)	Write about der most Derivation					gram	imar	(Ler	i ivio	st De	eriv	atior	i an	a Rign	4M
b)	Write about LL	, (K) pars	er witl	n pro	per E	xam	ples′	?							10M
3.	Construct SLR W=id+id*id is a E->E+T, T->T*F/	icceptec /T	•				•	mma	r and	d che	eck	the	inpu	it strinę	g
	F->E/id														14M
4. a)	Write about S-a	attribute	d and	L-att	ribute	ed gr	amm	nar in	deta	ails?					7M
b)	Write about Ab	stract S	yntax	tree?	<b>)</b>										7M
5.	Write about typ	e syste	ms an	d exp	olain	equiv	valen	ice o	f typ	e exp	ore	ssior	าร?		14M
6.	Write about Sy	mbol Ta	ble or	ganiz	zatior	n in d	etail	s?							14M
7. a)	What are the d	ifferent	oasic	buildi	ing bl	ocks	in c	ode d	optim	nizati	on	?			7M
b)	Explain differer	nt flow g	raphs	used	d in c	ode d	optim	nizati	on?						7M
8.	Write generic c	ode ger	neratio	on alg	-	m in **	deta	il witl	n pro	per e	exa	ample	e?		14M

Hall Tic	ket Number :	
Code :	1G153	1/R-13
	B.Tech. I Semester Supplementary Examinations May/June 2016 Computer Networks (Common to CSE & IT)	
Max.	Marks: 70 Time: 03 Hou	Jrs
	Answer any five questions	
	All Questions carry equal marks (14 Marks each)	
1. a)	What is a network? Explain the differences between Local Area Networks and Wide Area Networks with suitable diagrams.	7M
b)	Explain the layers in OSI model. Mention the necessity of using layer concept in OSI model.	7M
2. a)	Compare circuit-switching and packet-switching networks.	7M
b)	Define Guided media and unguided media with one example each.	7M
3. a)	Explain the services provided by Data link layer to network layer.	6M
b)	Explain three types of frame structure in data link protocol HDLC.	8M
4. a)	Explain CSMA persistent and non persistent mechanism. Mention various	
	types of persistent methods used in CSMA.	7M
b)	Explain the 802.11 Frame Structure.	7M
5. a)	Explain distance vector routing algorithm.	7M
b)	What is flooding? Why flooding technique is not commonly used for routing?	7M
6. a)	Compare IPv4 and IPv6 protocol	6M
b)	Discuss IP addressing methods. Mention the type of address for the following IP address i) 126.33.44.56 ii) 251.252.253.259	8M
7. a)	Explain TCP and UDP with diagram.	8M
b)	Explain one of the Elements of Transport Protocols.	6M
8. a)	Write short note on Electronic Mail.	8M
b)	What are the advantages of DNS?	6M

Hall	Ticl	ket Number :											]				
										R-11/	R-13						
Code		<b>G454</b> B.Tech. I Sen	nest	≏r Si	Inn	lem	enta	arv F	zan	ninc	ntion	is Ma	av/	lun			
		D.16CH.136H	1031		Un	ix P	rog	ram	min	g		15 1010	uy/	JUI 10	6 20	510	
(Information Technology) Max. Marks: 70 Time: 03 Hours Answer any five questions										'S							
		All	Que					•			arks	each	ר)				
						-	*****	****					,				
1		Explain the fol	lowir	ng co	mma	ands	with	exan	nples	6.							
		a) date b) cal															
		c) who															
		d) pwd															14M
2	a)	How memory i	is allo	ocate	ed foi	a fil	e in l	JNIX	?								6M
	b)	Can you chang	ge th	e pe	rmiss	sions	of a	file v	via te	rmin	al? If	so g	ive	an ex	xam	ple.	8M
3	a)	How UNIX har	ndles	star	ndard	stre	ams	?									6M
	b)	b) Give a brief note on display beginning and end of files.									8M						
4	a)	List and explai	n the	e opti	ons	of se	d co	mma	nd in	deta	ail.						7M
		Search for the		-								com	imai	nd.			7M
	,			•							• •						
5	,	Make a compa							• •								8M
	b)	List and explai	n the	e vari	ous	appli	catio	ns of	awk								6M
6	a)	Define Korn S	hell.	Expla	ain th	ne fe	ature	s of	Korn	She	II.						8M
	b)	How to create	an e	nvirc	nme	ntal	varia	ble ir	n terr	ninal	?						6M
7	a)	Briefly explain	the e	eval	comr	nanc	l of C	she	II.								8M
	b)	Write a C shel	l pro	gram	to d	ispla	y all	prime	e nur	nber	s bet	weer	n 1 a	and S	99.		6M
8		Explain the fol	lowir	ng dir	ecto	ry Af	PI:										
		a) opendii	•														
		b) readdir	~														
		c) closedi d) mkdir	I														14M
		,															

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Hal	l Tic	:ket Number :																	
Code : 1G355											R	-11/	R-1	3					
III B.Tech. I Semester Supplementary Examinations May/June 2016																			
Microprocessors and Interfacing																			
( Common to CSE & IT )													امی						
Max. Marks: 70 Time: 03 Hou Answer any five questions												ioui	3						
All Questions carry equal marks (14 Marks each)																			
****																			
1. a) With a neat pin diagram explain the minimum mode operation of 8086													7	М					
b) Describe the flag resister of 8086.												7	М						
			-																
2. a) With examples explain about the addressing modes of 8086 microprocessor.										r.	9	Μ							
	b)	Write an ALP ir	n 808	86 to	find	large	st of	a se	t of 8	bit n	umb	ers.						5	Μ
<ol> <li>a) Explain the need for actuators, A/D and D/A converters in microprocessor based systems.</li> </ol>													м						
	h)	Write in detail a	ahout	t ster	ner	moto	r and	1 acti	uator	s ani	d the	ir inte	٥rf	ace	with	n 80	86	-	M
	0)		about	1 310	per	moto			aatoi	5 011		11 1110	CIII	400	vviti	100	00.	0	111
4.	a)	What are the re	egiste	ers a	vaila	ble ir	า 825	57? V	/hat	are t	heir f	unct	ion	ıs?				8	М
	b)	Discuss about	Statio	c RA	M &	EPR	٥M	with 1	efere	ence	to 80	086						6	М
5.	a)	Explain the pro	•		•	quer	nce d	of Pl	C alo	ong v	with	flow	ch	art	exp	lain	each		
		command word									_								M
	b)	Discuss in deta	all ab	out ti	he In	terru	pt sti	ructu	re of	8086	ò.							6	M
6.	a)	Define mode w	ord r	eaist	ter of	825	1 for	asvr	nchro	nous	mo	de.						7	М
•		Give the signa		•				•					ow	in t	the	RS-	-2320		
	- /	standard.			- 3		- 3	- 3				9							М
7.	a)	Describe the sa	alient	feat	ures	of P	entiu	m ar	ld Pe	ntiun	n Pro	o pro	ces	ssor	S.			7	М
	b)	Explain the rea	l and	l prot	tecte	d mo	de s	egme	entat	ion a	nd p	aging	g					7	М
Q	<i>2)</i>	Draw a block di	aarar	n of	8051	and	ovnic	ain th	o fun	ction		form	ьЧ	by c	ach	blo	ck	0	М
0.	,	Write an assen	•				•				•			•					M
	U)	vvine an assell	поту Г	anyt	aye	PIUY	alli	11 00		, iniu	uic		0	1000	/ IIU	inne	JU O.	0	IVI