На	ll Tio	cket Number :													
Code: 5G152															
Cou	e. 5	III B.Tech. I S	Sem	este	r Su	pple	eme	enta	ry E>	kam	inat	ions	s May	y 2019	
						-	uter								
		ortes 70			(Cc	mm	ion t	o CS	SE &	IT )					
		arks: 70 wer all five unit:	s by (	choc	osing	one	que	stion	fron	n ea	ch u	nit (	5 x 14	Time: 3 Ho = 70 Marks )	JUIS
					U		*****	****				·			
1.	2)	Evoloin about	tha (	<u></u>	Dofo	rono	L	NIT-		to im	norte	2000	ovor	the TCD/ID	
1.	a)	Explain about Reference Mo		031	Rele	Terico				15 1111	μοπα	ance	over		9M
	b)	Ten signals, e		•	•					•			•		
		using FDM. V channel? Assu									•		r the	multiplexed	5M
				indit t	no g	uara		OR	5 100		mao	•			0 M
2.	a)	Make a list of	activi	ities	that y	you c	do ev	ery c	lay ir	ז whi	ch co	omp	uter ne	etworks are	
		used. How wo	uld y	our li	fe be	alte	red if	thes	e ne	twork	ks we	ere s	udden	ly switched	7M
	b)	Draw and expl	ain tl	ha st	ructu	iro of	ftha	tolon	hone		tom				7M
	0)		annu	16 31	luciu			NIT–		, sys	lem.				7 101
3.	a)	What is the ma	aximu	um o	verh	ead i				algo	rithm	ו? E	xplain		7M
	b)	A 100 byte IP p	backe	et is t	ransı	mitte	d ove	er a lo	ocal l	οορ ι	using		SL pro	tocol stack.	
		How many AT	M ce	lls w	ill be	trans	smitt	ed? I	Briefl	y des	scrib	e the	eir con	tents.	7M
							(	OR							
4.	a)	Data link proto	cols	almo	st alv	ways	put	the C	RC i	n trai	ler ra	ather	than i	n a header.	014
	b)	Why? Sketch the M	anch	octo		odin				ic Et	horn	ot fo	or the	hit stroom	9M
	D)	0001110101.	anch	ester	ent	Jouin	ig ui	iat	1055					Dit Stream	5M
							U	NIT-I	11						
5.	a)	Explain the bu	uilding	g ano	d dis	tribut	tion o	of lin	k sta	te pa	acket	s in	link s	tate routing	71.4
	L.)	algorithm.							<b>1</b> ' -						7M
	b)	Are there any packets out of					nen	conn	ectio	n or	lente	a se	ervice	will deliver	7M
							(	OR							
6.	a)	How Congesti	on co	ontro	l is d	iffere	ent fro	om F	low C	Contr	ol? E	Expla	ain		7M
	b)	Explain about	Dista	ance	vecto	or ro	uting	algo	rithm	IS.					7M

UNIT–IV

7.		Draw the format of UDP header. The following is a dump of a UDP header in hexadecimal format.	14M
		CB84000D001C001C	
		a) What is the source port number?	
		b) What is the destination port number?	
		c) What is the total length of the user datagram?	
		d) What is the length of the data?	
		e) Is the packet directed from a client to a server or vice versa?	
		OR	
8.	a)	Why does UDP exist? Would it now have been enough to just let user processes send raw IP packets?	7M
	b)	Explain the differences in using the sliding window protocol at the link layer and at the transport layer in terms of protocol timeouts.	7M
9.	a)	Draw and explain the figure that shows the purpose of DNS.	7M
	b)	When are external viewers needed? How does a browser know which one to use? Explain	7M
		OR	
10.	a)	Can a machine with a single DNS name have multiple IP address? How could this occur? Explain	7M
	b)	Write an XML page for university registrar listing multiple students, each having a name, an address and a GPA.	7M

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Hall	Tick	et Number :	
Code	<b>ə: 5</b> G	R-15	
		III B.Tech. I Semester Supplementary Examinations May 2019	
		Microprocessors and Interfacing	
Max	. Mo	( Common to CSE & IT ) arks: 70 Time: 3 Hou	Jrs
		ver all five units by choosing one question from each unit ( 5 x 14 = 70 Marks )	
	、		
1.	a)	List different flags and give the importance of each.	7N
	b)	How the memory is organized and accessed different segments in 8086	7N
0	、	OR	
2.	a)	What is addressing mode list 5 different addressing modes in 8086	7N
	b)	Compare two different string of length 100 bytes are same or not using string instruction	7M
		UNIT–II	
3.	a)	Differentiate I/O mapped and Memory mapped I/O	4M
	b)	Display digits 0 to 8 by Interfacing seven segment display to 8086	10N
		OR	
4.	a)	Interface stepper motor and rotate in clockwise continuously.	7N
	b)	Give the importance of BSR mode	7N
_	、	UNIT-III	
5.	a)	What is the importance of interrupt	4M
	b)	Discuss the interrupt structure of 8086	10M
•		OR De la	
6.		Draw the architecture of 8257 and give the function of each block UNIT-IV	14M
7.	a)	Distinguish synchronous and asynchronous data transfer	4M
	b)	Determine different configuration registers in 8251	10M
		OR	
8.	a)	Why RS232 to TTL conversion is required	4M
	b)	Explain architecture of 8253	10M
		UNIT–V	
9.	a)	Compare real and protected mode	7M
	b)	Elaborate the architectural features of 80286	7M
		OR	
10.	a)	List the salient feature of Pentium pro processor	7M
	b)	Summarize the architectural features of Pentium.	7M

Hall	Fick	et Number :													
R-15									R-15						
III B.Tech. I Semester Supplementary Examinations May 2019															
					-				/ste						
( Computer Science and Engineering ) Max. Marks: 70 Time: 3 Hours											irs				
Answer all five units by choosing one question from each unit ( $5 \times 14 = 70$ Marks)											// 5				
								*****		]					
1.	<b>2</b> )	What are tl	no m	naior	activ	vitios		UNIT		tina	Svet	om	rolatod	to memory	
1.	a)	managemen		ajoi	aur	viiico	01		opere	ung	Cy3	CIII	related	to memory	7M
	b)	-		cons	umer	prot	olem.	Ехр	lain t	he s	olutic	on of	produc	er-consumer	
		problem usir	ng sha	ared	mem	ory.									7M
								OF							
2.	a)	What are the		dvan	tages	and	d dis	adva	ntage	es of	i usir	ng la	ayered	approach to	714
	ь)	system desig	-	aada	for n	oooir		romo	toral	o tha	One	rotio	a Svoto	m	7M 7M
	b)	Describe life	meu	1005	ioi p	a5511	<u> </u>				; Ope	aun	y Syste	111.	7 111
3.	a)	Explain Mult	i-thre	adec	l mod	els.			-11						7M
	b)	Let the five of					ose a	rriva	l time	e is ze	ero a	s per	the giv	en order and	
	,	length of the		•								•	Ũ		
					<u>cess</u>	Bur		ne							
					<b>b</b> <sub>1</sub> <b>b</b> <sub>2</sub>		15 8								
					2 3		10								
					<b>9</b> 4		5								
		Calculata th	0.01		0 <sub>5</sub>	itina	12 time	of E		abadı	ulina	مامه	rithm b	w taking the	
		quantum val		-		-		UIT	11 20	cheu	unng	aiyu		y taking the	7M
								OF	R						
4.	a)	Describe the	crite	ria's	used	to co	ompa	re C	PU so	chedu	uling	algoi	rithms.		7M
	b)	Explain Read	ders-'	Write	ers pr	obler	n.								7M
							ι	JNIT	-111						
5.	a)	Consider the		•	-		of th	•							
			Alloc		Α	Max	~ <b>¬</b>		ailabl						
			1						5 2						
			0 (			7									
		_	2 4 5			4									
		P <sub>3</sub> 1 P₄ 1	6 4	42 14	1 1		62 55								
		Answers the						g the	Ban	kers	algor	ithm.			
				-	-			-			-			tisfies safety	
			equire												
			•		•				•		0) ca	in the	e reques	st be granted	014
	<b>۲</b>				y? Gi doad			expla	natio	[].					8M 6M
	b)	Explain reco	very		ueau	IUCK.									OIVI
								OF	1						

			Code: 5G153
6.	a)	Explain paging model of logical and physical memory.	7M
	b)	Explain Segmentation with an example.	7M
		UNIT–IV	
7.	a)	Explain file system mounting.	7M
	b)	Explain RAID structure.	7M
		OR	
8.	a)	Explain free space management.	6M
	b)	Explain any two disk scheduling algorithms	8M
		UNIT–V	
9.	a)	Explain goals and principles of protection.	8M
	b)	Explain Revocation of access rights.	6M
		OR	
10.	a)	Explain firewall design principles.	6M
	b)	Explain the Cryptographic model with a neat diagram.	8M
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R-15         Code: 5G154         III B.Tech. I Semester Supplementary Examinations May 2019         Software Engineering <ul> <li>(Computer Science and Engineering)</li> <li>Max. Marks: 70</li> <li>Time: 3 Hours</li> <li>Answer all five units by choosing one question from each unit ( 5 x 14 = 70 Marks )</li> <li>************************************</li></ul>	F	- all <sup>-</sup>	Ticket Number :									
III B.Tech. I Semester Supplementary Examinations May 2019 Software Engineering ( Computer Science and Engineering ) Max. Marks: 70 Time: 3 Hours Answer all five units by choosing one question from each unit ( 5 x 14 = 70 Marks ) ********* UNIT-I 1. a) Write and explain about categories of Computer Software with examples? b) Why Software Myths? Write and explain about Management Myths, Customer Myths an Practioners Myths. OR 2. What are the different types of prescriptive process models? Explain. UNIT-II 3. a) Examine the Requirement elicitation and Requirement elaboration tasks in brief. b) Classify Verification and Validation with examples? OR 4. a) Discuss Data Modeling Concepts with examples. b) How to make stakeholders to understand the requirements model? UNIT-II			R-15									
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b) How to make stakeholders to understand the requirements model?	_		-									
UNIT-III	4.	,										
		b)										
	_	,										
5. a) What are the characteristics of a Good Design?	5.	,										
b) Write and explain about Quality Attributes?		b)										
OR		,										
6. a) Explain any four Web app Design principles	6.	,										
b) With examples explain Data Design elements and Architectural Design elements?		b)										
UNIT-IV	-	,										
7. a) List and explain about the golden rules of User Interface Design?	7.	,										
b) Explain about Debugging process. Why is Debugging so difficult?		b)										
OR	•	,										
8. a) Differentiate between Black- box and White- box Testing strategies?	8.	,										
b) How Regression and Stress Tests are performed?		b)										
UNIT-V	0											
<ol> <li>Explain in detail about Project Estimation Techniques.</li> <li>OR</li> </ol>	9.											
10. a) Write a note on the ISO 9000 Quality Standards?	10.	a)										
b) Compare and contrast 'known risks' and 'predictable risks'		,										
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Hall 1	īcke	et Number :	
Code:	5G1	55 R-15	
		I B.Tech. I Semester Supplementary Examinations May 2019	
		Web Technologies	
Max.	Mar	( Computer Science and Engineering ) ks: 70 Time: 3 Hou	Irc
		r all five units by choosing one question from each unit ( 5 x 14 = 70 Marks ) ********	112
		UNIT–I	
1.	a)	Describe ordered list and unordered list tags.	7M
	b)	List out Java Script Objects. Explain any three Objects.	7M
•		OR	
2.		Write HTML page(s) to implement forms and frames.	14M
		UNIT–II	
3.	a)	Write a java script program to find factorial of a given number.	7M
	b)	Describe External Document Type Definition with example.	7M
		OR	
4.	a)	Discuss in detail about DOM.	8M
	b)	What are XML schemas?	6M
		UNIT–III	
5.		What is driver manager? Explain how driver establishes a connection and	
		create & execute SQL statements.	14M
0		OR Discuss is a condet Deckers with suitable exemple	714
6.	a) b)	Discuss java.servlet Package with suitable example. How to set the environment to connect servlet with database?	7M 7M
	b)		7 111
		UNIT–IV	
7.	a)	Distinguish between doGet () and doPost () methods in Servlets.	7M
	b)	Illustrate the connection establishment of Database into servlets with suitable example.	7M
		OR	7 111
8.	a)	Explain how HTTP request & responses can be handled.	7M
	b)	Discuss database access using servlets.	7M
		UNIT-V	
9.	a) b)	Discuss about sharing session and application data in JSP.	7M
	b)	Explain database access with JSP. <b>OR</b>	7M
10.		How we can display values using an Expression to set an attribute? Explain.	14M
10.			14101

Hall	Tick	et Number :	
Code	e: 5G	R-15	
		III B.Tech. I Semester Supplementary Examinations May 2019 Compiler Design	
		(Computer Science and Engineering)	
	• • • • •	arks: 70 /er all five units by choosing one question from each unit ( 5 x 14 = 70 Marks ) ********	UIS
		UNIT-I	
1.	a)	What is a compiler? State various phases of a compiler and explain them in detail with suitable example.	10M
	b)	Give the reasons for separating Lexical analysis and Syntax analysis into two Phases.	4M
		OR	
2.	a)	Explain the input buffer scheme for scanning the source program. How the use of sentinels can improve its performance?	8M
	b)	Briefly discuss about LEX Tool and explain how LEX program performs lexical	
		analysis for the following patterns in 'C': identifier, comments, arithmetic	6M
		operators.	OIVI
3.	a)		
		example.	10M
	b)	Explain error recovery strategy in predictive parsing.	4M
		OR	
4.	a)	Check whether the following grammar is LL(1) or not.	
		S→A# A →Bb / Cd	
		B→aB	
		$C \rightarrow cC / \epsilon$	10M
	b)	Distinguish RDP and Predictive Parser.	4M
_	、		
5.	a)	Construct SLR parsing table for the grammar	
		$E \rightarrow E + T / T$ T $\rightarrow T^*F / F$	
		$F \rightarrow (E) / id$	
		Verify whether the input string id+id*id is accepted by the grammar or not.	
		Show details of shift and reduce operations.	10M
	b)	Write the various steps involved in generating parser using YACC.	4M
		OR	
6.	a)		
		S→id(P) P→id	
		$E \rightarrow id(E) / id$	6M
	b)	What is the difference between LR(0) items and LR(1) items? Explain when	
	,	we use these items.	2M
	c)	Explain about syntax directed translation. Write SDT for evaluation of	
		expression using L-attributed grammar.	6M

UNIT-IV

7.	a)	Generate the three address code for while(i<10)	
		{x:=0;	
		i:=i+1;	
		}	6M
	b)	Explain Heap storage allocation strategy in detail.	8M
		OR	
8.	a)	Why do we need intermediate code? What are the types of intermediate	
		code?	6M
	b)	Explain activation tree and draw activation tree for any sorting method.	8M
		UNIT–V	
9.	a)	List the data flow equations for reaching definitions for Structured program.	4M
	b)	Discuss about redundant sub expression elimination, frequency reduction	
		and constant folding.	ЗM
	c)	Explain Code generation algorithm with the function GETREG.	7M
		OR	
10.	a)	Construct a DAG and write the sequences of instructions for the expression	
		a+ a*(b-c) + (b-c) *d.	5M
	b)	Explain loop optimization techniques with suitable examples?	5M
	c)	Show various steps in the Code generation algorithm of the expression	
		(a+b) / (c+d) assuming two machine registers to be available.	4M

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