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Hall Ticket Number :													R-1	1 / R	-13
Code: 1G151 III B.Tech. I Semester Supplementary Examinations May 2017															
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Max. M	(Computer Science and Engineering)								Tim	ne:3 H	lours				
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	All	QUE	51101	is cu	irry e	400 *****		KS (T	4 ////		Juci	1)			
1.	Explain variou the output of e	-			-		-		-	bhas	e in c	letail	write c	down	14M
2.	What is top dow	/n par	sing?	? Co	nstru	ct LL	(1) pa	arsing	, table	e for t	he fo	llowin	g gram	nmar.	
	E		-T T	-											
	T		F F) id												14M
		(∟,) IU												1-+111
3.	Construct Can	onic	allR	nar	sinat	ahle	for t	he fo	llowi	na a	ramn	nar			
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	С	С	C / d												14M
4. a)	Write the quad	druple	o trir	مام أر	odiro	ot trij	olo fo	r tha	etat	amo	h t				
4. a)	a := b* – c + b	•	•	л с , п	une	cruŋ			Sial	SILICI	п				7M
b)	Draw syntax tr			e aritl	hmet	ic ex	press	sions							7M
5.	Explain symbo	ol tab	le or	ganiz	zatior	n usi	ng ha	ash ta	ables	? W	ith ar	n exa	mple s	show	
	the symbol tak			-			-						•		14M
6.	Explain differen	t prin	cipal	sour	ces of	f opti	mizati	ion te	chnic	lne w	rith su	uitable	e exam	ples	14M
7. a)	Explain the na	tural	loon	s an	d inn	or lo	ons c	of a fl	ow a	ranh	wit	n an d	avamr	مامع	7M
b)	Explain the eq		•				•			•			Jamp	100	7M
0)		June		0011	pun	·9 ···	U vui			a 110	gro	~P'''			, 111
8.	Explain in deta	ail ab	out r	nach	ine d	lepeı **		t cod	e opt	imiz	ation	in de	etail.		14M

Ha	all Ti	cket Number :									
Cod	e : 1	G153 R-11 / R	-13								
		III B.Tech. I Semester Supplementary Examinations May 2017									
		Computer Networks									
Ma		(Common to CSE & IT) arks: 70 Time: 3 H									
MU	<. /vi	Answer any five questions	10013								
		All Questions carry equal marks (14 Marks each)									
1.	a)	List and explain the four levels of addressing employed in TCP/IP protocols.	7M								
	b)	What networks are used at your college? Describe the network types, topologies, and switching methods used there.	7M								
2.	a)										
		media being in use today.									
	b)	With the help of neat diagram, explain the Structure of the Telephone System.	7M								
3.	a)	A bit string, 011110111110111110, needs to be transmitted at the data link layer. What is the string actually transmitted after bit stuffing? Explain.	5M								
	b)	Discuss the simplex stop-and-wait protocol.	9M								
4.	a)	With a neat flowchart, explain the working of CSMA/CD protocol.	8M								
	b)	Describe the Dynamic Channel Allocation in LANs and MANs.	6M								
5.	a)	Make a comparison between distance vector routing and link state routing protocols.									
	b)	With the help of example, explain a situation where we use hop-by-hop choke packet.	6M								
6.	a)	Give a note on Mobile IP.									
	b)	Write in detail about Border Gateway Protocol and what are the various types of messages in BGP?	7M								
7.	a)	List the services offered by the Transport layer.									
	b)	Draw and explain the format of UDP Packet. The following is a dump of a UDP header in hexadecimal format.									
		CB84000D001C001C									
		i) What is the source port number?									
		ii) What is the destination port number?									
		iii) What is the total length of the user datagram?									
		iv) What is the length of the data?									
		v) Is the packet directed from a client to a server or vice versa?	10M								
8.	a)) With the help of common scenario explain the architecture and services of e-mail.									
	b)	What do you mean by DNS? Distinguish between Iterative and Recursive name resolution with illustrative examples.	7M								
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Hall T	icket Number :									
Code:	1G355 R-11 / R-	13								
	III B.Tech. I Semester Supplementary Examinations May 2017									
	Microprocessors and Interfacing									
	(Common to CSE & IT) Narks: 70 Time: 3 Hc									
Max. N	Answer any five questions	0015								
	All Questions carry equal marks (14 Marks each)									
1. a)	Explain the functions of the following registers									
	i) Segment Register									
	ii) Pointer Register iii) Index Register	8M								
b)	Explain the physical memory organization in an 8086 system	6M								
0)		OIVI								
2. a)	What are different addressing modes supported by 8086 and explain each with									
	suitable example.	8M								
b)	Write an assembly language program to find the factorial of a given number.	6M								
3. a)	Explain A/D converter interface to 8086 microprocessor	6M								
b)	Sketch and explain the interface of PPI 8255 to 8086 microprocessor in minimum mode	8M								
4. a)	Explain the Static RAM and EPROM interfacing to 8086 microprocessor									
b)	Explain the need of DMA. Discuss about DMA data transfer and interfacing of 8257	8M								
5. a)	Explain the importance of 8259 interrupt controller and explain how it handles the interrupt.									
b)	Explain various hardware and software interrupts of 8086 microprocessor	6M								
6. a)	Explain the architecture of 8251 USART with the help of neat diagram.	8M								
b)	Explain TTL to RS232C and RS232C to TTL Conversions	6M								
7. a)	Explain registers of 80386 and also explain real and protection modes of 80386	7M								
b)	Compare architecture of Pentium with 80286 and 80386	7M								
8. a)	Explain the architecture of 8051 microcontroller with neat diagram and write brief notes on each.	8M								
b)	List out the differences between microprocessors and microcontrollers ***	6M								