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Fourth Semester B.E. Degree Examination, Dec.2018/Jan.2019												19							
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Tin	ime: 3 hrs.																Max. Marks: 80		
	N	lote:	Ansv	ver (any	FIV	Ef	ull qu	iestioi	ıs, ci	hoosin	g ON	E full	quest	ion fr	om ea	ch me	odule.	
															V				
1	a.	Defi	ne D	ata Witl	Con	nmu • ne	nica	ation.	Expla	in th	Modu e Fun	damen	tal co	mpone	ents o	f a dat	a com	munication (06 Marks)	
	b.	List out the functionalities of physical layer, data link layer, network layer, explain in brie												in in brief. (04 Marks)					
	c.		ine T						nent. E	Expla	in dif	erent	causes	of tra	ınsmi	ssion i	mpair	ment (06 Marks)	
							3	line.			OD	Z							
2	a.	Exp	lain	dioi	tale	iona	1 tra	ansmi	esion	meth	OR ods F	Explair	line	rodino	r:			(06 Marks)	
_	b.	Dra	w the	e lin	e cc	de f	or t	he se	quence	e 010	001110) using	g NRZ	Z, NR	z – L	, NR	Z-I	(00 Marks) , RZ , AMI. (07 Marks)	
	c.	12,0	000 f	ram	es p	er n	ninu	te. W	ork w ith ea	ith a	band ame c	width arryin	of 10 g an a	mbps verag	can p	oass or 10,000	nly an bits.	average of What is the	
		thro	ughp	out c	or th	is ne	etwo	ork?		9"		, de	# 9					(03 Marks)	
								Δ	A)	Mo	dule-	2			,d				
3	a.								n proc						- 1			(08 Marks)	
	b.	Wha	at is	Spre	ead S	Spec	trur	m? Ex	kplain	FHS	S with	suita	ble dia	igram.	4			(08 Marks)	
						4	497				OR	*		Atta	P				
4	a.												. 1					trategies. (07 Marks)	
	b.	is multiplexed, what is the duration of i) Each input slot ii) Each output slot																	
	c.						ie ci	an he	sent f	rom	One c	vetem	to and	other 1	icina	dataar	om or	(03 Marks) proach and	
	0.	calc	ulate	the	tota	al de	lay	with	approj	priate	e diagi	am.	to and	other t	isilig	uatagi	am ap	(06 Marks)	
							•			Mo	dule-	3							
5	a.								block									(06 Marks)	
	b. c.	Fyn	Itily lain	tne (code	WO	rd u	ising	in HE	giver	i data	word	1001 a	ind ge	nerato	or is 10)11.	(04 Marks)	
	.	Lvh	IMIII (O (11)	7 011	ı II d.	1110	cypes	m Mr	LC.								(06 Marks)	
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- What is Internet checksum? If a sender needs to send four data items 7, 11, 12, 0, 6 answer the following: (06 Marks)
 - i) Find the checksum at the sender site.
 - ii) Find the checksum at the receiver site if there is no error.
 - b. Explain stop and wait protocol with appropriate diagram.
 - c. Explain the frame format and transition phases of point to point protocol. (06 Marks)

(04 Marks)

		Module-4	
7	a. b.	What is Channelization? List and explain the channelization protocols. A slotted ALOHA network transmit 200 bit frames using a shared channel with 20 bits/sec bandwidth. Find the throughput if the system produces. (06 Ma)	0 K
		i) 1000 Frames per second ii) 500 Frames per second iii) 250 Frames per second	
	c.	Describe Gigabit Ethernet. (04 Ma	arks)
		OR	
8	a.	Describe Pure ALOHA and Slotted ALOHA. (04 Ma	
	b.	Explain briefly controlled access method. (06 Ma Define Bluetooth and its architecture. (06 Ma	
	C.	Define Bigetooth and its architecture.	ai KS)
0		Module-5	
9	a. b.	Write a short note on Satellite networks. (04 Ma Explain the Operation of cellular telephony. (06 Ma	
	c.	Explain Transition from IPV4 to IPV6. (06 Ma	
		OR	
10	a.	Explain the working of mobile I_P with phases. (08 Ma	
	b.	Explain IP datagram header format, with neat diagram and give the description of each f	
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