													ofEngine	ring & Ha			
							G	BC	98	Ю'n		dri Colle	CENT	RAL agemen)		
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USIN		E.61]		• • • • •	Q.	Adyar, M	angalo	2021		
FILL Semester D.E. Degree Examination, July/August 2021 Computer Networks																	
Time: 3 hrs. Max. Marks: 100																	
Note: Answer any FIVE full questions.																	
1	а	Explair	n the i	inter	face	bety	ween	the p	rocess	and th	he comp	uter Ne	twork	socket	with c	liagram	
_	1														(10 Marks)	
	b.	Descrit	be per	5150		ina n	ion-p			meen	0115 01 11	111.				(10 Marks)
2	a.	Explain the services offered by DNS and also explain the DNS record and message format.)
	b.	Define	File	Tran	nsfer	Pro	tocol	l, its c	onnect	tions a	and worl	king. W	rit abo	out FTI	P com	mands and	ł
		replies also.												(10 Marks)		
3	a.	Explain	n com	necti	ion c	orien	ited r	nultip	lexing	and d	le-multip	lexing.		1 1	ı .	(08 Marks)
	D.	Alice wants to communicate Bob over a TCP connection. Design a model show stat transition they undergo during i) Connection establishment ii)										nowin i) Da	ta transfe	r.			
		iii) Cor	nnecti	on t	ermi	inati	on.	()		0					,	(08 Marks)
	C.	Define	rat_s	ena	() a	na r	at_rc	∶V().								(04 Marks)
4	a.	Explair	1 TCF	seg	gmer	nt an	d its	servic	es wit	h a dia	agram.					(10 Marks)
	b.	What is	s cong	gesti	on i	n a r	netwo	ork? H	low T(CP har	ndles con	ngestior	1.	Ê.		(10 Marks)
5	a.	What is	s rout	ing?	Ext	olain	the s	structu	ure of	router	with a r	neat dias	gram.	>		(10 Marks)
	b.	Explair	n the s	span	ning	g tree	e algo	orithm	and g	give its	advanta	ages and	disad	lvantag	es.	(10 Marks)
6	а	Discus	s the]	(PV)	6 na	cket	form	nat				6				(08 Marks)
Ū	b.	Describe Network layer services briefly.										(06 Marks)				
	c.	How d	oes ro	outer	r det	term	ine tl	he rep	lacem	ent V	C numb	er for a	packe	t trave	rsing	the router' (06 Marks)	?
		G					2	V									, ,
7	a. h	Define Explain	5 elei Indi	men rect	ts of and	f mo Dire	bile r	hetwoi	rk arch	nitectu obile r	ire. 10de					(10 Marks (10 Marks)
	о.	Едрійн	i indi					outing			lioue.						,
8	a. h	What is	s hand	d off	? W	hat a	are th	ne step	s in ac lity	ccomp	lishing l	hand of	f?			(10 Marks (05 Marks)
	с.	Explair	n Age	nt D)isco	very	/ with	n diag	ram.							(05 Marks)
9	a.	Explair	1 PCN	л Er	ncod	er ai	nd PC	CM De	ecoder	-						(07 Marks)
	b.	Briefly	expla	ain p	orop	ertie	s of V	Video	and A	udio.						(07 Marks)
	C.	Descrit	be the	DII	iSer	v in	terne	t Arch	itectu	re.						(06 Marks)
10	a.	Illustra Video	te the	e int	terac	ction	bety	ween	Client	and	Server 1	for HT	ГР str	eaming	g for	Audio and	t v
	b.	. Explain content Distribution Network.													(08 Marks)	
	c.	Mentio	n lim	itati	ons	ofB	est –	Effor	t IP se	rvice.						(04 Marks)
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