		Reg. No	•								Τ		
	Question Paper Code			304	0								
	B.F. / B.Tech DEGREE EX	AMINAT	TION	NS.	NOV	//T)EC	202	4				
	Sixth	Semester		10,	100	, , ,		202	•				
	Electronics and Com	municatio	on E	ngi	neer	ing							
	20ECPC602 - COMMU	NICATI	ON N	NE'	тwс) RK	S						
	Regulat	ions - 202	0										
Dι	ration: 3 Hours		•						М	lax. N	/Iar	ks: 1	00
	PART - A (MCO)	$20 \times 1 = 2$	20 M	lar	ks)							К_	
	Answer AL	L Questio	ns							Ma	ırks	Level	CO
1.	What type of signal can be transmitted by Broad	band?									1	Kl	<i>CO1</i>
•	(a) Analog (b) Digital (c) Both Analog and Digital (d) None								1	V1	<i>CO</i> 1		
2.	Which of the following is NOT a cause of transm	nission im		me	nt?	~					1	K1	COI
3	Which one is used in parts of the cellular t	elenhone	(u) (svste	em	and	for	son	ne s	atelli	ite	1	K1	C01
5.	communication?	erepriorie	5950	•	unu	101	501			100			
	(a) CDM (b) TDM (c) FDM	[(d) WI	DM							
4.	Every station connected to Ethernet network is p	rovided a	6-by	/te	physi	cal	addr	ess ł	уy		1	K1	<i>CO2</i>
	(a) firmware (b) th	e network	inte	erfa	ce ca	rd							
5	(c) the interface service provider (d) no The T in 100 base T Ethernet technology stands	one of the	se								1	K1	CO^{2}
5.	(a) transmission (b) twisted pair (c)) total uti	lizati	ion		(d)	ton s	sneed	1				002
6.	When an acknowledgement is lost during Go-b	ack-N AF	RQ, t	the	recei	ver	retra	ansm	its tl	he	1	K1	<i>CO2</i>
	acknowledgment after timeout.		~										
_	(a) true (b) false										,	1/1	601
7.	BGP communication packets are										1	KI	003
	(a) SYNC, OPEN, UPDATE, NOTIFICATION (b) OPEN LIDDATE NOTIFICATION KEEP LIVE												
	(c) SYNC ,FINISH, NOTIFICATION ,KEEP LIVE												
	(d) FINISH, OPEN, UPDATE, NOTIFICATION												
8.	Why do we consider dividing an IP address in to network address and host address?						1	K1	СОЗ				
	 (a) To increase the total number of IP addresses possible (b) So that routers route the packets based on the host address (c) To avoid the overhead of storing all possible host IP addresses in each router 												
	(d) For resolving IP addresses from domain nam	es	iui co	505	in ca		ouic	1					
9.	How many classes exist in classful addressing of	f IP?									1	K1	CO3
	(a) 2 (b) 5 (c) 3 (d) 6												
10.	What is the role of "Scheduling" in the basic Qo	S architec	ture?	?							1	Kl	<i>CO</i> 4
	(a) It regulates the outgoing traffic rate to contro (b) It marks packets according to their service to	l jitter.											
	(c) Detects which packets violate the OoS, and drops them.												
	(d) Maintains queue and prioritizes packets into the outgoing buffer as per policy.												
11.	Socket Address is:								1	K1	<i>CO</i> 4		
	(a) IPv4 Address Translated to Ipv6 Address												
	(b) Combination of IP Address and Port Address	5											
	(c) Combination of MAC Address and domain A	ddress											

(d) Application Layer Address

12.	 (i) UDP does not have any flow control and congestion control mechanism. (ii) UDP is suitable for purposes where error checking and correction is less important than timely delivery. 				<i>CO4</i>
		al of the above statement(s) is/are true?			
10	(a) Oi	(1) (2) Donly (11) (2) Both (1) and (11) (3) None the above	1	V1	C05
13.	Flow	control is mainly implemented in	Ι	K1	COS
	(a) Ph	ysical layer (b) Application layer (c) Transport layer (d) Session layer			~~~
14.	Trans	port layer is implemented in the firmware of a computer system.	Ι	KI	<i>CO5</i>
	(a) Tr	ue (b) False			
15.	Let th	e maximum TCP payload be given 1450 bytes; then, what is the maximum network	1	K1	<i>CO5</i>
	layer	payload in Bytes?			
	(a) 14	50 Bytes (b) 1470 Bytes (c) 1430 Bytes (d) 1480 Bytes			
16.	The u	se of cryptographic function to generate sequence numbers for TCP connection is	1	K1	CO5
	helpfi	I to avoid			
	(a) TC	CP Congestion overflow (b) DoS attack			
	(a) T	CP SVN flood attack (d) None of these			
17	Which	b of the following is remote login application?	1	K1	CO6
17.	(a) to	not (b) ETD (c) DNS (d) SMTD			000
10	(a) lei	entrel connection is initiated on port number	1	K1	C06
18.	FIPC	$(1) 21 \qquad (1) 20 \qquad (1) 142$	1	K1	000
10	(a) 20	(b) 21 (c) 80 (d) 143	,	1/1	001
19.	A "we	eb Browser" is an HTTP Client.	Ι	ΚI	006
	(a) Tr	ue (b) False			
20.	int do	main name refers to	1	Kl	<i>CO6</i>
	(a) Bı	usiness use (b) informational sites			
	(c) int	remational organizations (d) None of these			
		PART - B (10 × 2 = 20 Marks)			
		Answer ALL Questions			
21.	What	is meant by data communication?	2	K1	CO1
22.	Outlin	he the four basic network topologies.	2	K2	CO1
23	What	are the functions of MAC?	2	K1	<i>CO2</i>
$\frac{23}{24}$	Enum	erate some of the physical properties of Ethernet	2	K2	CO2
24. 25	What	is the use of Network Address Translation?	2	K1	CO3
23.	w nat	is the use of Network Address Translation?	2	V)	cos
26.	Relate	e the use of Border Gateway Protocol.	2	Κ2 1/1	cos
27.	What	is dotted decimal notation?	2	KI	<i>CO</i> 4
28.	Class	fy the different classes of IP address.	2	K2	CO4
29.	What	is three way handshaking?	2	K1	CO5
30.	Sumn	narize the four factors needed for a secured network.	2	K2	<i>CO6</i>
		$PART - C (6 \times 10 = 60 Marks)$			
		$\frac{1}{2} \frac{1}{2} \frac{1}$			
21	c)	Discuss in detail about the layers of OSI model	10	К2	COI
51.	a)	Discuss in detail about the layers of OSI model.	10	<u>112</u>	cor
	1 \		10	Vγ	COL
	b)	Discuss about stop and wait ARQ scheme with sliding window ARQ scheme in	10	Λ2	COI
		detail.			
32.	a)	Explain Ethernet 802.3 in detail with its frame format.	10	K2	CO2
		OR			
	b)	Discuss the operation of switching and bridging in detail.	10	K2	<i>CO2</i>
	,				
33.	a)	Explain Distance Vector routing in detail.	10	K2	CO3
		nR			
	b)	Write notes on the following (i) Internet Protocol (ii) Pouters	10	K2	CO3
	0)	white notes on the following (1) internet i folocol (ii) Routers.	~		
21		Discuss in detail the various aspects of IDV6	10	KJ	CO^{4}
54.	a)	Discuss in detail the various aspects of IP v 0.	10	Λ2	004
Kl -	– Remen	ıber; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create		130	040

		OR			
	b)	With the help of neat diagram, explain the transition from IPV4 to IPV6.	10	K2	<i>CO4</i>
35.	a)	Elaborate the services and features offered by TCP.	10	K2	CO5
	b)	Summarize the different approaches in flow and error control of transport layer.	10	K2	CO5
	,	Explain them in detail.			
36.	a)	Elaborate on WWW and HTTP in detail.	10	K2	<i>CO6</i>
		OR			
	b)	Explain in detail about DNS and its types.	10	K2	<i>CO6</i>