Enroll				
	C.	U.SHAH	UNIVERSIT	ΓΥ
	S	Summer Ex	xamination-201	8
Subjec	t Name: Next Ger	neration Networks	;	
Subjec	Subject Code: 4TE08NGN1		Branch: B.Tech (CE)	
Semes	ter: 8 D	ate: 01/05/2018	Time: 02:30 To 05:30	Marks: 70
(2) (3)	Use of Programm Instructions writt	en on main answer ms and figures (if r	any other electronic instrum book are strictly to be obe necessary) at right places.	-
Q-1	Attempt the fo	llowing questions	:	(1
a) What is sub net	ting?		
b) What is static a	nd dynamic routing	<u>3</u> ?	
c) What is Multip	lexing and De-mult	tiplexing?	
d) Explain bufferi	ng?		
e	What is DNS?			
\mathbf{f}	State the difference	ences between TCF	and UDP.	
g) What is a socke	et?		
h) The size of IP a	ddress in IPv6 is_		
i)	The entire host	name has a maximu	ım of	
	a) 255 characte	rs b) 127 charac	eters c) 63 characters	d) 31 characters
j)	In the IPv4 ad addresses is	dressing format, th	ne number of networks all	owed under Class C
	a) 2 ¹⁴	b) 2 ⁷	c) 2^{21}	d) 2 ¹⁶
k		,	API functions converts ar	·
13		o a passive socket?		i unconnected detive
	a) connect	b) listen	c) bind	d) accept
1)	· · · · · · · · · · · · · · · · · · ·	setype of	· ·	-, accept
-)	a) broadcast	b) multicast	c) anycast	d) Unicast
n	*	n offered by TCP is	· •	,
	a) full duplex	b) half duple:		d) byte by byte
n	· •	the ICMP message	· •	



b) 8 bits

a) 8 bytes

c) 16 bytes

d) 16 bits

Attempt any four questions from Q-2 to Q-8

Q-2		Attempt all questions				
	(a)	What Is A Daemon? Explain Syslog Procedure with suitable diagram.				
	(b)	Explain State Transition diagram for Transport layer.	07			
Q-3		Attempt all questions				
	(a)	Describe working of Routing information protocol (RIP).				
	(b)	Explain IP Addressing using Classful and Classless Addresses.	07			
Q-4		Attempt all questions				
	(a)	List and explain four application layer protocol of TCP/IP protocol suite.				
	(b)	Write short note on OSPF (open shortest path first) algorithm.	07			
Q-5		Attempt all questions				
	(a)	Explain TCP Client Server Procedure with suitable diagram.				
	(b)	What is the difference between the delivery of a frame in the data link layer and	07			
		the delivery of a packet in the network layer? Explain the functionalities of the network layer.				
Q-6		Attempt all questions				
	(a)					
	(b)	Show & explain various fields of IP (internet protocol) Datagram.	07			
Q-7		Attempt all questions				
	(a)	Compare IPV4 and IPV6 with their header format.				
	(b)	Compare Intra domain and Inter Domain routings protocols.	07			
Q-8 (a)	Attempt all questions					
	(a)	Explain functionality of ARP and RARP protocol.				
	(b)	1. What are the Network ID, Broadcast Address, and first & last valid IP on	07			
		the sub network that the host 192.168.1.15/26 belongs to?				
		2. How many subnets and hosts per subnet can you get from the network				
		172.168.21.0 255.255.255.224?				

