This document is a part of Main Course File			Document No.: CFM – 8	
		SARDAR VALLABHBHAI PATEL EDUCATION SOCIETY MANAGED N. G. PATEL POLYTECHNIC		
ISROLI-AFWA		COMPUTER ENGINEERING DEPARTMENT		
FORMAT FOR ASSIGNMENTS				
Course Na	me (With Co	de): ACN (4350706)		
Semester / Year: Fifth/Third				
Assignme	nt Number: 1	1050807		
Assignment CO Number: 4350706.a				
Sr. No.	Questions related to Course Outcomes			
Part – A	Answer the Question.			
l.	Explain Network Layer Protocol.			
2.	Explain IPV4 Addresses in detail.			
3.	Explain CIDR notation.			
4.	Explain Forwarding of IP Packets.			
5.	Explain Internet Protocol in detail with diagram.			
6.	Explain Network Address Resolution /Translation (NAT).			
7.	Explain ICMPv4 in detail.			
8.	Find the Subnet Mask, Subnet address and Broadcast address for the classless IPv4 address 193.57.32.150/25.			
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ISROLI-AFWA		COMPUTER ENGINEERING DEPARTMENT			
		FORMAT FOR A	SSIGNMENTS		
Course Na	ame (With Co	de): ACN (4350706)			
Semester /	Year: Fifth/	l'hird			
Assignme	nt Number: 2	425050(1			
Assignment CO Number: 4350706.b					
$\frac{Sr. NO.}{D}$	Questions related to Course Outcomes				
Part – A	Answer the Question.				
<u>l</u> .	Explain IPv6 Addressing.				
2.	Explain IPv6 Packet header Format.				
3.	Explain Extension Headers of IPv6.				
4.	5 Explain ICMPv6 Protocol.				
5.	Compare IPv4 and IPv6 (Any four points).				
6.	What are the main differences between ICMPv4 and ICMPv6?				
7.	Explain the strategy of transition from IPv4 to IPv6.				
8.	Explain Error Reporting in ICMPv6 Protocol.				
9.	Write short note on: ICMPv6 informational messages, Neighbor-Discovery Messages& Group				
10	Membership Messages.				
10. Write the unabbreviated (Original) form of the following IPv6 addresses.			onowing IPvo addresses.		
	2. 0:FF::3 3. ::FFFF				
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1997		COMPUTER ENGINEERING DEPARTMENT			
		FORMAT FOR ASSIGNMENTS			
Course Name (With Code): ACN (4350706)					
Semester /	mester / Year: Fifth/Third				
Assignme	nt Number: 3				
Assignme	ssignment CO Number: 4350706.c				
Sr. No.	Questions related to Course Outcomes				
Part – A	Answer the Question.				
1.	Explain Routing.				
2.	Give the difference between Intradomain routing & Interdomain routing.				
3.	Explain following Routing Algorithm. (i) Distance Vector Routing (ii) Link State Routing (iii) Path				
	Vector Routing.				
4.	Explain RIP Protocol& Message format.				
5.	Explain OSPF Protocol & Message format.				
6.	Explain BGP protocol.				
7.	Compare RIP and BGP routing protocols				
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Course Na	ame (With Co	ode): ACN (4350706)	
Semester	/ Year: Fifth/	Third	
Assignme	nt Number: 4		
Assignme	nt CO Numbe	er: 4350706.d	
Sr. No.	Questions related to Course Outcomes		
Part – A	Answer the Question.		
1.	Explain Services provided by the Transport Layer.		
2.	Explain UDP Header Format.		
3.	Explain TCP Segment Format.		
4.	Explain TCP Connection (A 3-way handshake).		
5.	Explain SCTP Packet Format.		
6.	List various TCP Services and SCTP Services.		
7.	Explain significance of the fields of SCTP packet format.		
8.	The hex dump of the UDP header as follows:05DC0035001D0000 Find the following from the		
	UDP hex dump. (a) Source port number (b) Destination Port number (c) Total Length of the UDP Header (d) Length of		
	the data.		
9.	The hex dump	of the SCTP header is as follows	. 09C4138C000000200000040
	Find the following from the SCTP hex dump. (a) Source port number (b) Destination port number (c) What is the value of the varification $tag^2$ (d)		
	(a) Source port number (b) Destination port number (c) what is the value of the vertication tag? (d) What is the value of the checksum?		
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FORMAT FOR AS			SSIGNMENTS	
Course Na	nme (With Co	de): ACN (4350706)		
Semester / Year: Fifth/Third				
Assignme	nt Number: 5			
Assignment CO Number: 4350706.e				
Sr. No.	Questions related to Course Outcomes			
Part – A	Answer the Question.			
l.	Explain Application Layer Protocols in detail.			
2.	Explain WWW and URL.			
3.	Explain working of FTP with a diagram.			
4.	Give the difference between POP3 & IMAP.			
5.	Explain SMTP in detail.			
6.	Explain MIME in detail.			
7.	5 Describe Web based mail.			
8.	Explain Domain Name System with example.			
9.	Explain recursive domain name resolution with diagram			
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