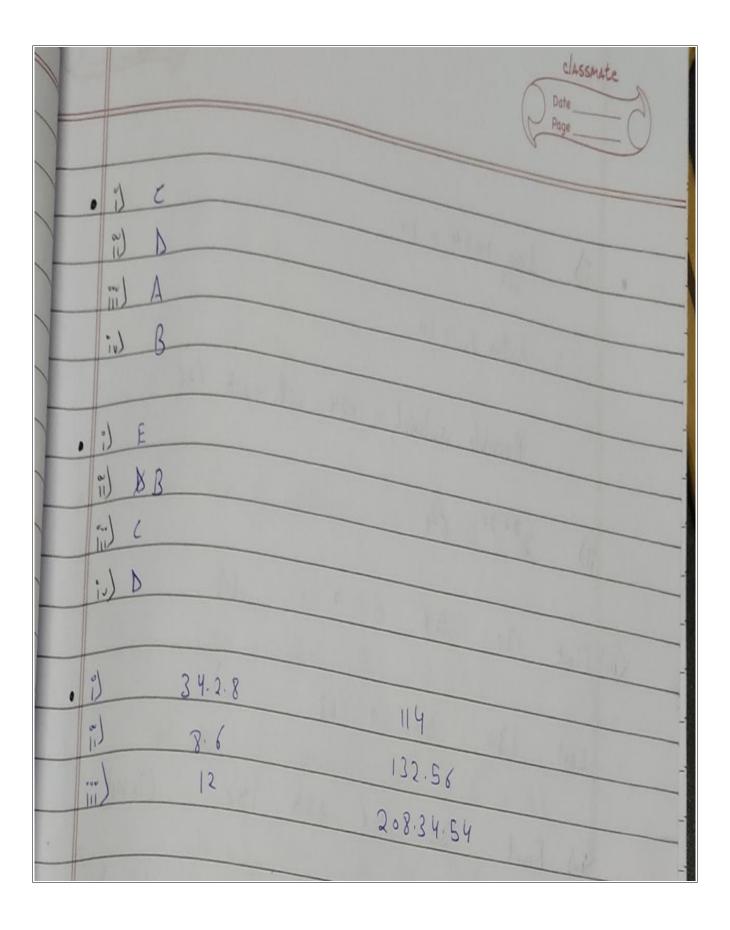
Data Communication And Networking

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CSE DevOps 18
R171218016-500067759

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	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
•	$2^{N} = 1024$ $\Rightarrow N = log 1024 \Rightarrow N = 10$

*					
	3	310 = 59 041			
0	i	011000	00/000/0	00000000	0000 000
	20	10000001	00001110	00000110	0000 000
	500	11010000	00100010	60110110	00001100
	"v)	11/0/110	00100010	00000010	0 0 0 0 0 0 0 0
•	<i>(</i>)	127.240.103.1	125		
	00	175. 192.24	0,29		
	50)	223.176.31.	93		
	űv)	239. 247, 19			



Mark NA	25 255 25	34 255 34	0	56			
HA MC	25	3.4	12	5 6		3	
LA	25	34	255	255	118		
H-A	182	44	82	16			
Mark	255	255	255	135	1		
HA MC	182	44	85	16			
LA	132	44	82	63	du		
A							

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	1) log 1024 = 10 Extra 1s = 10
	Possible subnet = 1024 with mark 126
(iii)	First 130 56 0 0 (1)
~- 	Last 130 56 0 63 (1)
\[\] \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Last 130 56 255 255 (1024)

} _				T ex i	350	
	100 32	> 5	P	ossible s	ubnets = 32	with mark 129
	Els	5			6	S M
		080	980	- PE	de	A
-	2 32 - 23	= 8	= 2	3		
-		Y	12	- 191	581	
		211	17	180	0	100
	Last	211	17	186	7	Ala
			09	Lipin	5%	
	First	211	17	180	248	(32)
	Lart	311	17	130	255	(32)
		200				1 115

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• 24	(a) 124 (b) 18 (c) 119 (d) 120	18
. 25	(a) No. of addrew = 232-29 = 23 = 8	
	From 123 56 77 32 to 123 56 77 39	
	(b) No. of addrew = 2 ³²⁻²⁷ = 2 ⁵ = 32	
	from 200 17 21 128 to 200 17 21 159	28.2
	(c) No. of addrew = 232-23 = 512	142 3
	Jrom 17 34 16 0 to 17 34 17 255	38,0

		TALL AND	
•	28	It is not a network!	
0	29	(1) 2340: IABC: 119A: 4000:0	100 100
-	_	(ii) 0: AA: 119A! A231	10.41
1		(00) 2340: 119A: A001:0	
+	_	41) 0:0:0:2340:10	
+	_		
+	_		
+	/		

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=====			
ans 31	(d) loopback	PELLA	
	(c) multicart	31 (4)	
- <u>-</u>	(b) Site local	en (s)	
	(a) link local	041(8)	
[
and 32	(a) unspecified	s with the	
~ <u> </u>	(a) unspecified (b) mapped		
	(c) provider bared	INTERNIC	
-	(d) provider bared	RIPNIC	
Ĩ	(e) provider bared	APNIC	
Ť	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	L podhla L da	(4)
-			
- Ams 33	58ARCI	for the second	

- Amc 34	0:18106: (22
	0:1: FFFF 1: 8108: C22
- Ans 3.5	F£ 80!! 123
-	FECD: 123
	Distance of the second
- Am 36	FF02 ((group IN))
	THE RESERVE TO A STATE OF STAT
_ Am 38	MER ROLLING
	From > 581E (1456) 2314 (0000) ABCD (0000) (000)
	to > 501= 145(12211)
	to > 59/E: 1456: 23/4: 0000: ABCD: 0000:000

classmate Chapter 20 And i) The delivery of a frame in the data link layer is from ii) The delivery of packet at the network layer is from host And I In connection less services there is no teardown and posetry is Data trasfer in the only phase in communication iii) 3 phases -s Setup, data transfer, teardown

Am3 (a) Each data link layer's protocol has a limit on the size of the packet it can carry. (b) Datagram must be fragmented (c) IPv4 allow gragmentation at host or any nower. W IP, 6 allow pragmentation only at host

	Dote Page
Ans	(i) The value of checksum field is set to 0
	ii) The entire header is divided into 16-bit. A.
	The checksum in the IPv4 packet covers only header A
- Am 9	The checksum is eleminated in 1Pv6 because it is provided by upper layer protocols, it is therefore not needed at this level.
	and the second reserved and advanced to

Ans	Header length = Total - Data
	Header length = Total - Data = 1200-1176
	= 24
	MLEN = 24/4
	6
An, 14	First byte number can be calculated from the effect. Itself. It the effect in 120, that many times means that 120x8 i.e. 960 bytes
An 15	Value of header length field of an IP packet can neverte less than 5 because every IP datagram must be of attent a base header that has a fixed live of 20 bytes.

	Classmate Date
Ans 16	field = 7 Bare header = 20, Total bytes = 8
Aml	aphon field = 20 , total header length = 40 HLEN field = total number of bytes in header / 4 = 10
Ans 18	36 bytes = \$ 36-20 = \$16
Am 19 1	leader length ix 20; Total length is 1024 +20 = 1044

Am 20 The identification field in incremented former each non fragmental datagram
Am21 The M bit is zero, this means that the datagram is either the fact pragment or he it is not pragmented at all. Since the affect is 0; it cannot be the last pragment of fragmented datagram.
Am 22 The offsets field show the offset from the beginning of original datagram in multiple of 8 bytes and offset of loo indicators that there were 800 bytes of data sent before the data in this fragment.

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- An 23	Hien = 5 Service = 0 vor = 4
	Total length = 84 Identication = 3 Flags and Fragmentation = 0 glact = 0
	Time to live = 32 Protocol = 6 Checksum = 0x 5850

Mass Island and the second	- PYA
2 - 180 1 +1	- Ans 24
= 200 = 20 = 180 bytes	
00 x 8 = 1600	~
	`
	`
first byte = offset value = 1000	<u></u>
last late = Met value + datasize -1	
= 1779	
Then it is last fragment.	
N. N. Warris and M. C.	- 1010
	7
	-
Jirst byte = offset value = 1600 Last byte = offset value + datasize - 1 = 1779 Then it is last fragment.	