Name: Lakhan Kumawat Roll No: 1906055 Brunch: CSE-1 Course: Computer Networks Course Code: CS5403 Date: 12/01/2021 Assignment -3 Solution 1: Address: 245.248.128.0/20. Since souting prefix is 20, the isp has 2 (32-20) or 212 addresses. out of 212, (2") are given to organisation A and (2") are given to Obganisation a So souting prefix for organization A will be 21. For B it will be 22 If we see all aptions in question, only options (A) and (B) one left as only these options have same number of souting prefixes. To assign addresses to organization A, ISP needs to take first 20 bits from 245.248.128.0 and fix the 21st bit as 0 00 To Similarly ISP needs to fix 21st and 22nd bits for Doganisation B. Here 21st and 220d bits for organisation Base Considered o in both options so gist bit of organisation a must be 1. Now take the first 20 bits from 245.248.128.0 and 21st bit as 1, we get addresses for organisation A as 245.248.136.0/21. \$ Cossect uphon is (A) 245.248.136.0/21 and 245.248.128.0/22

Name: Lakhan kumawat RollNos 1906055 Bounch: CSE-1 Course: CS5403 Course Code: Computer Networks. Date: 01/12/2021 The Coorect conswer is (D) 255.255.255. 224. Solution 2 The Past octets of Ip addresses of A and B ate 173 (0117 0001) and 916 01 011 011) . The netmask in option (D) has first three bits set. Then these hits must be same in A and B, but that is not the Case. In simple woods . We Can say option (D) is not valid netmask because doing binary 18' of it with addresses of A and B doesn't give the same network address. It must be same address as A and B one on same network. John and make

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	Date: 21/1/2021		
	xx		
80 Trigu 3:	given Class B has a subject mask of 255.	255. 2 48	*0
	The binary septesentation of given subnet mass	k is	- 1 - V
	11111111-1111111111111000-0000000	Quite: A	
	These Goe 21 bits set in Subnet: 90 11 (32-2)	u) bits	ave left
	Total possible values of host ids one	2" = 204	8
	out of 2048 Values, 2 addresses are reserved. cul bits as 1 is reserved as broadcast add with all host ids bits as 0 is used as of subnet.	diess ar	nd addjess
	In general, the number of addresses		
<u> </u>	addressing specific hosts in each network	isalw	2 2 2 2
	where Nis the number of bits for host	id.	ş - ş - ş - ş
	The second secon	4	
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Nome: Lakhan Kumawat Roll No: 1906055 Bounch: CSE:1	
Course: Computer Networks. Course Code: CS5403 Date: 01/12/2021 ——————————————————————————————————	
Solution 43 given: Class B host is split into 6-bit Subnet number.	
Maximum number of Subnets = $2^{6}-2 = 62$	
The RFC 950 Specification reserves the Subnet Values Consisting of all Zeros and all the ones reducing the number of available Subnets by to	<u>00</u>
Maximum number of hosts is 210-2=1022	
The address with all bits as I is reserved as broadcast address and address with all host id bits as a is used as network address up Subnet. In general, the number of addresses usable for addressing specific hosts in each network is always 2N-2 where N is the number of bits for host id.	

Name: Lokhan Kumawat Roll No: 1906055 Bounch: CSE-1 Coutse: CS5403 Course Code: Computes Netwooks. Solution 5: PAOTOCOI Uses Datagram Totansmission Control Protocol UDP TCP St is a Communications protocol, UDP is same as TCP psolocal Using which the data is Definition except this clossn't guarantee trunsmitted between the the eoros-checking and data systems over the network. The data is toursmitted in the occovery. The Data is Sent continuously form of packets. It also is a espective of the includes essos checking and governmes the issues in the seceiving end. delivery and preserve the order of data packets. UDP is Connection less It is Connection - oriented Desingn DootoCol. pootocol. Less reliable as compared to More reliable as it provides Reliability TCP as it provides only espox Checking Support. basic essor-Checking Support These is a people's sequencing Data-These is no sequencing of of clara in TCP i.e. packets Taunsmission data in UDP assive in order at deceiveds end. E.g. live-streaming Eg. TVerwork telephone