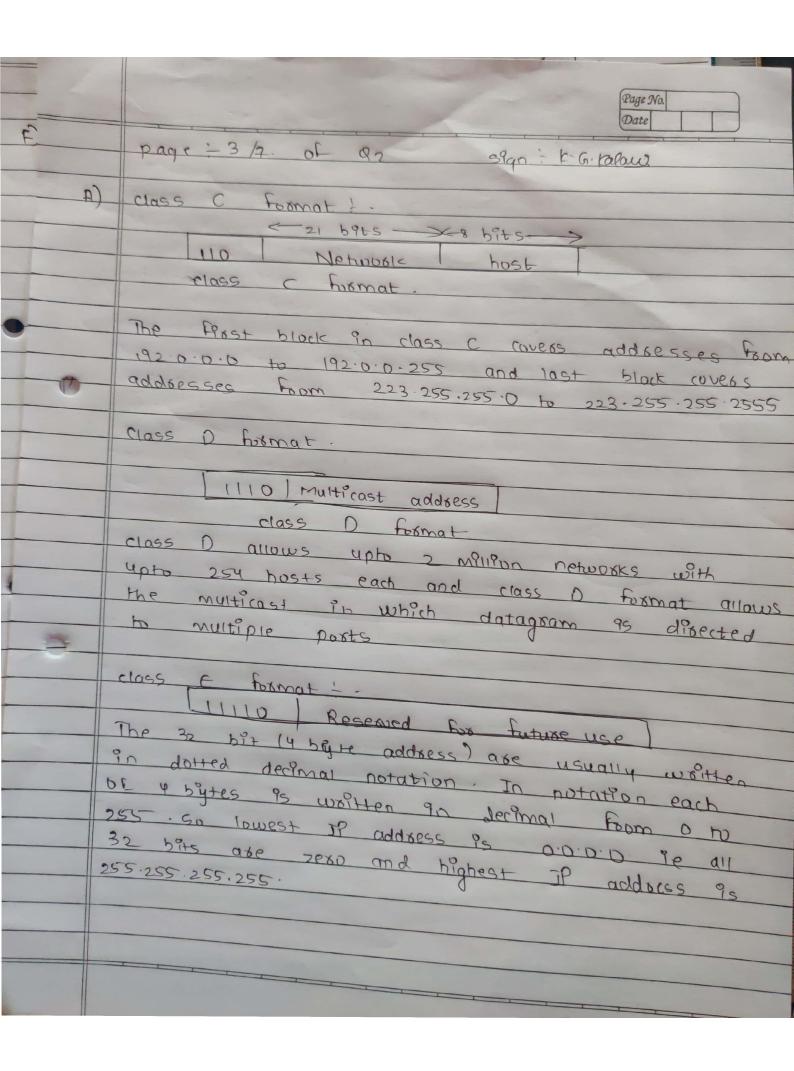
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| | Name: Kalani Karan Giyan. semestex 1 5 subject: CN. Seat No: CS5 A021 pg No: 1/7 of Q2. sign: K.G. Kalans. |
| (A | In the classful addressing architecture, the IP. address space has been divided into 5 classes. A B C D G . The number of class A addresses is highest ie 50's and those of classes D |
| | Class No. of addresses. A 31 50%. B 30 25%. C 2 12.5%. C 2 6.25%. C 2 6.25%. C 2 6.25%. |
| | classful addressing occupation of address space. |
| | Format of various classes O Network Host This > = 24 bits -> |
| | class A JPV4 formats. |
| | |

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| | pg No: 2A of Q2. Sign: k. G. talawi. |
| | class A Format. The Formats used for TPV4 address are as Shown. The TPV address for class A networks is Shown it The network field is a bit long and host field is 24 bit length. So the network field an have numbers between 1 to 126. but the host no will range from 00.00 to 127.255.255.255. The 'O' in the Frost field identifies it is class A network address. |
| 21 | The In class B address format the first two field dentify the network and the number in set field must be in bange 128-191 — 14 bit > = 16 bit > 10 Network host class B format. |
| The | ASS B networks are large. Host number 0.0 255-255. are reserved. So there can be in the first block (216-2) host in class B network First block covers address from 191.255.0.0 191.255-255.255 Inple: 128.89.6.26 for host 0.26 or het 128.89 |

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| | | Page! 9/7. of Q2 sign : Elo-Kalaw - |
| | | ehannel is to be allocated to one transmission time. The other user connected to this medium should wait. This is alled channel allocation the use two different schemes used for channel allocation |
| - | (3) | estatic channel allocation in LAN's and MAN's |
| | | The traditional way of allocating a single channel among many user is by means of frequency division multiplexing (FDM) |
| | Pi | The FDM and TDM are examples of static |
| | I Fin | channel allocation. In this methods either Fixed frequency or Fixed time slot 95 alloted to each other. Entire |
| | -11 | bandwidth or entire time is shared. The problem in those methods if all the |
| | | N number of users are not using the channel the channel bandwildth is wasted and it there |
| | | channel & they cannot do so For lack of bandwidth |
| | 11 | Ignamic channel allocation |
| | | ignal channel as per his requirement to |
| 1 | | |
| 1 | | PT-O |

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| | page! 5/4. of 02 sign: Korkaland |
| | following assumptions are made fox- implementation of this method |
| | independent stations such as Pc computer etc. which can generate frames to a transmission in Dingle channel - A single channel is available to a all communication. in time and resulting signal is gashled. This is called collision. in constitution. in time and resulting signal is gashled. This is called collision. channel before transmission or they directly to transmit without prensing the channel. |
| 2 6). | The data link layer is supposed to carry out many specific functions. For effective data communication between two directly connected transmitting and receiver stations the data link layer has be carry out a no. of specific functions. |
| | Functions of data link layer. J J J J J J J J J J J J J J J J J J J |

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| | Page 1 6/7. of Q2 Sign? (C.G. paraid) |
| 0) | i. Bervice provided to network layer. the data 190K layer provides a wen defined serve in restant to network layer. Frame Bynchronization the source machine sends data in the form of blocks called frames to destination machine. |
| | Source machine should not send data frames at a sate faster than apacity of destination machine to accept them. |
| | the expos controliet coduces during transmission must be detected and corrected at destination |
| | When many machines are connected hyether (LAN) the identity of individual machines must be specified while transmitting the data frame. this is known as addressing |
| | Link management: the communication Ink between Source and destination is required to be initiated, maintained and finally beswinated for effective use of data. |
| | Toachar's Sign : |

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| | page: 7/7 of 02 stand |
| B) | Some advantages of fibre optics communication. over the conventional means of communication. |
| - 11 | into Cable of Small diameter |
| | the matesial used for manufacturing of optical fibres is 'silica glass'. This material is easily available. |
| | No electrical or electromagnetic interference; Bince transmission takes place in the form of ight rays the signal is not affected due to my electrical or electromagnetic interference. |
| th The ar | Large handwidth: Is light rolls have a high frequency in GHZ range re handwith of aptical fibre is extremely large. Is allows transmission of more no. of channels rerefore the information carrying apacity of optical fibre is much higher than that of |
| | |
| | Teacher's Sign.: |