M1C 308 Computer Networks. SACHIN DUHAH 3 EF2K17/MC/087 Assi Enment II 5 Improspection in the adversing schemes has led 5 to adress depletion eur as the no. of drivers on the 5 Class c networks Sheepporting 254 nosts is too small internet is less than 232 1 1 while class B with 65534 are loo long. Consequently A and B Class advesses networks are 1 depleted as medium sized organisation have to opt 1 B (cass proliferation of rower-table entries also 1 leads to reduced ferformance 1 1 140.15.81.97/26 75140.15.89.01100001 1 255.255255.1160000 140.15.89.01000000 10 140.15.89.0111111 block: 140.15.59.64/26 to 140.15.89.127/21 2 32-26 = 26 = 64 11 Adress -2 bits are ased too Subnet representation with 16 since them are yeared Subblocks. adresses in each subblocks. 140.15.89.79/28 sublock 1: 140.15. 6964/28 to sus bloucz: 140.15,89.80/28 to 140.15.89.95/28 Subblock 3 140.15.89,96/28 to 140.15.89,(11/28 subblock 4 140 :15.89.112/20 to 140:15.89.127/28 A packet may be broken into smaller chundes bursed on itis Size and deliure and smaller Trogmonts : 7 Fragmented offsets enables are rearrayed at the destination to from the original packet.

tragmentation offsers enable the destination fragmented. Offset enable - he destination to arrange for Joaquer in a propo sequence, the steet of the First Tragmed i's zero

The field length is 13 bits vary @ thrugh 819)

3 way hand shaking is a connection objected Service employed by the towns spirit lay ery OSI model to stup/use a relliable connection.

server. Cleien

Client requests come ch'on establishme ACK respond to request SYN sychronises sequing no.

client acknowledges cynchrosnization. reliable (munion. Is established.

Dutagron socied is a network societ providing cornerionles podet transfer point. Every podet is individually routed and delivered. A datagram socket may also be brodust. So closet adrosses is a 45 bit Combination of 18 adres (32 bil) (Sonal recive)

und port. 200.23.56.5.69 Il adress port.

= Medium acers Control' sublayers (MAC) is a sublayer] Donation Some Function of MAC as Follows.

Now (onhol.

mult plexing. For transmission medies.

- data hant network interface card.

adresses is used as netural adresse yer data transmission.

U 37 -No. 1 subset = 23=8. => 3 bit to denote subset. 182-270.3-7.102 (a) 182.770.00,00101.102 nel 10 submt Host id Cubut mask = 255.715.11100000.0 ... neto 4 i D (Subner ID) = 182.270.32.6. (b) 162.7.70.118115 182,40,10 \$ 11101.23. nel 70 subut host 10 Subrut 15 = 152.270.160.0, I gmp or internet group management protocol manays.

the memberschip of hosts and routing devices in A host beames a member of a group when a procus request to leave a group Each host keeps track of groups it's processes belong to.

groups it's processes belong to.

muliust. voutes determine which lost are past of a group hand which lost are past of a group and out. by pody query pactots. about con as a mint asking hords I report which gray thus belong to. = Oses diagram protocoll (UDP) hansmits data units (alle of with a 7'x side reader of skylsheader (data data from Source port destinations Cherx sun long th UD1 Header. Edurce pot the prt of the devis liend the dat This 1 eight: Specifies two ness of kylo lempring. the UPP modeline, and paylod batta ylo lempring.

destination post: The post vectoring the data
The range of Field is 10-65535), o.
Check sum: allows the recious to verity the
integrity of the ported heaves and pay back.