Name-Syeda Ruha Guasar Group - C7 Holl no. - 14124802729 (N) Suignment-I and I what are the there stilleria necessary for an effective and an egicient network? Ans 1. The 3 content necessary for effective and efficient a) PERFORMANCE: It's a measurement of various factors such as the amount of time required for menages to toravel from one device to another. The time it requires to get a response starting from one enginery. It also depends on he m. g active view, transmission, made etc. users, transmisser media, etc. b) RELIABILITY: It is measured by me joveneway of failure, time it take to recover from failure, me network's robustness. a) Security: The data that is sent should reach it's destination softy without any mind party reading, aftering or destroying it in the midway. Ques 2. heral- are the nove fundamentals charactershis to determine the effectiveness of the data comminication system? In the effectiveness of two data communication system depends on 3 fundamental characters: i) delivery - sine system must deliver the data to the correct destination. 2) Accuracy - The system must deliver data accurately 3) Timeliners - un system must deliver data in timely manner. ans 3. What are the ceriteria used to evaluate transmissions medium? My Criterias for evaluating the transmission media are: 3) Peropagation speed 1) Thoughpur 4) Womelingth. N Peuspagation Time support layers and the user ans 4. What are the network support layers? DUSER SUPPORT LAYERS NETWORK SUPPORT LAYERS 1 Session Layer 1 Penjical layer 2 pala link Layer D Presentation Layer 3 Application layer (3) Nemork Layer

Method layer, data line layer and he network layer are the of data from one dayers. There layers manage a physical transfer of data from one daying to dayers manage a physical transfer. of data from one allvice to another. Servion layer, preservation and application layer are the user support layers. These layers allow communication among unrestricted software in dissimilar environment N/W layer deals wim electrical specifications, knyicas commection, paniport lumns and reliability. User support layer rallows interperated by among mercelated software syllan. dues 5. Why we migerale from IPV 4 to IPV6 is It is short for Internet Perstocal of the Handard for transferring dava over the internet in the form of dalgrans IPV 6 is the next-gen internet postocol wersoon believe is an upgrade over me perevious VY Migrating chapself mean replacing IPV4 with IPV6. It just means enabling IPV6 along with IPV4.

Means enabling IPV6 along with IPV4.

So the migrate from IPV4 to IPV6 because of he following reasons.

On Makes and in 1 Mines wonting efficient @ End to end transparency Faster packet parocessing 2) Coccurity (5) Quick Data flows awas6. Why chernet is said to be 1-peristant protocol ? Any Emernet is said to be 1-persitant personal because because whenever adapter has a frame to send and the line is busy, it would for me line to go idle and then time is busy, it would for me line to go idle and then time as and when it becomes idle it transmits the frame Minnedialey boner me line. Hence, ethernes pollones I-perisons Emernes said to be 1 - persistent postocol as it has an adapter with a frame to send transmits. with perosability e 1 7 whenever a busy line goes idle. anest suppose we want to frammit the minage 1011001001001011

