Name-Syeda Recha Guarar Grown - C7 Roll no. - 14114802719 (N) Ssignment-I and I what are the thouse 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 vornous factors such as the amount of time required for menages to travel from one device to another, the time it requires to get a response slavding from one enginery. It also depends on he no. of active visers, transmisses media etc. users, transmissier media, etc. b) RELIABILITY: It is measured by me foregreining of failure, time it takes to recover from failure, me network's robustness. c) Secretty: 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 home fundamentals charactershis to determine the effectiveness of the Lata communication system? In the effectiveness of two data communication system depends on 3 findamental 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) Perspagation speed 1) Thoroughpur 4) Warrelingth 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 1 Presentation Layer 3 Application layer (3) Nemore Layer

metriorical layer, data line layer and he network layer are the of data from one dayers where layers manage a physical transfer of data from one obtains here layers manage a physical transfer. of data from one alevice to another. Service 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, knyical commercion, pransport lumny and reliability. User support layer rations interperation in y among merchand software system. dues 5. why we migrate from IPV 4 to IPV6 is It is short for Internet Perstocal of the Handard for Gransferring dava over the internet in the form of dalgrans IPV 6 is the next-gen internet postocol wersoon hubicin is an upgrade over the previous V4 Migrating chapsel mean suplacing IPV4 with IPV6. It just means enabling IPV6 along with IPV4.

Means enabling IPV6 along with IPV4.

So the migerale from IPV4 to IPV6 because of the following reasons. 1 Makes aronting efficient 1 End to end transparency @ Faster packet parcersing 2) Cecurity (5) Ruck Data flows awas6. Why chernet is said to be 1-peristant proceed ? Any Ememet is said to be 1-persitant purpose because whenever adapter has a frame to send and the line whenever adapter has a frame to send and the line is busy, it wonts for me line to go idle and then time as and when it becomes idle it transmits the frame timediately bones me line. Hence, ethernes pollonis I-perisons Emernes said to be 1 - persistent postocol as it has an adapter soim a frame to send transmits. with perosability penerocal e 17 whenever a busy line goes idle. anes 7. Suppose we want to frammit the message 10/100/00/00/011

