Que! Difference between TCP/IP and OSI model?

Ans: Following over the difference between TCP/IP and OSZ

TCP/IP	OSI
is transmission Contral brotocol Internet Brotocol	(i) The full form of 05I us open system Interconn- nection.
1 0	(i) Ot in a structure
model became the stan- chard language of ARPANET.	und introduced by the . International arogenisation of Standardization (ISO).
(iv) 9t follows the horizon- tal approach.	in 9+ follows the west in
(V) The TCP/IP is the imple- mentation of OSI model.	model, based on which a retexage is created
p co za capanala	(VUS)+ is protocol independent
OSI header is 5 bytes	(VID The smallest size of the TCP/ITP header is Robytes.

Quez what do you understand by multiple access what are the various types of multiple access protocols?

Ans Data transmission bestween two nodes is handles by the Data link Layer. Its primary duties includ data link Layer. Itse primary duties include data link control and multiple occess control

multiple access protocule may also be classifier into following:

(i) Random access protocal: - All stations in the random access protocal have equal superiority, which means that no station has higher haissity than any other station Depending on the status of the medium any station may send the data.

iii) control ocuse protocol! - In this station send the data conce it has received approval from all other stations. The station under controlled access protocol exchange information to determine which station has the authority to send. In order to breview message collisions over a shewed medium, it only permits one node to send at a time. These are the three controlled access techniq

(I) Token kassing Folling

(III) Reservation.

till Chamelization! The chanelization protocol allow numerous station to access the same channel at the same time by showing the links available band width according to time, forequency, and code. The three types of chanelization we:

is Forequency Division Access.

(#1) Time Division Multiple access. (III) code Division multiple occess.

due3 Explain fallowing with example:

1) Distance vector Routing (11) Hierarchical Routing

Ans (i) Distance vector mouting: - In DVR mouter. main tains a nouting table. It contains only one entry for each nouter It contains - two parts - a preferred outing line to use for that destination and an estimate of time: Table are updated by the following with the neighbor's nodo.

Each router, known the delay in reaching its. neighbor. Routers periodically exchanges nouting toble with the delay in the neighbors. It composed the delay in the delay with the delay. in the neighborrs table and cost of reading that neighbor Dt the both via neighbor has go lower cost. then the mouter updates its local table to forward. kerthete to the neighbor

Hierachial Routing! - On hierachical nouting, the monters were divided into region Each nouter has complete details about how to route pockets to destination within its own region. But its does not have any idea, about the internal structure of othe regions.

In Hierochical noutery, nouters classified in group called. region. Each router has information about routers in other region and it has no information about routers in other region. So nouters some received in their table. for every other region. The size of nouting table increase the router cannot handle network traffic. To overcome this problem we are using Hierochical shorting.

Que (a) Calculate the Net ID and subred Markof 24.3.1.13.16.

(b) Calculate fallowing for +P address -> 167.199.170.88 Find the no of addresses first address and last address.

Ans: - GD 24.31.13.16 this is classfull. Class - A

Network ID :- 24.00.0

Subret :- 255.0.0.0

(b) 167.199.170.88/27 this is class less

Here n 5 &7

Therefore number of addresses is 3(32-n) = 2(32-27)

number of endebresses = 32,

Exist addres: = 167.199.170.64

Last address !- 167.199.170.95