

## sec-3

Q-2

\* Static scope  $\Rightarrow$  Is also called lexical scoping in this scoping variable always refers to its top level environment.

\* dynamic scope  $\Rightarrow$  It requires the programmer to anticipate all possible dynamic contexts.

\* Non-local variable in static scope:  
A non-local variable of a subprogram refers to the variable of that name from the enclosing unit (or from that unit's enclosing unit, etc)

A routine (a set of routines) can be set up to depend on a global variable with a default value.

\* Translation of switch statement The intended translation of a switch is

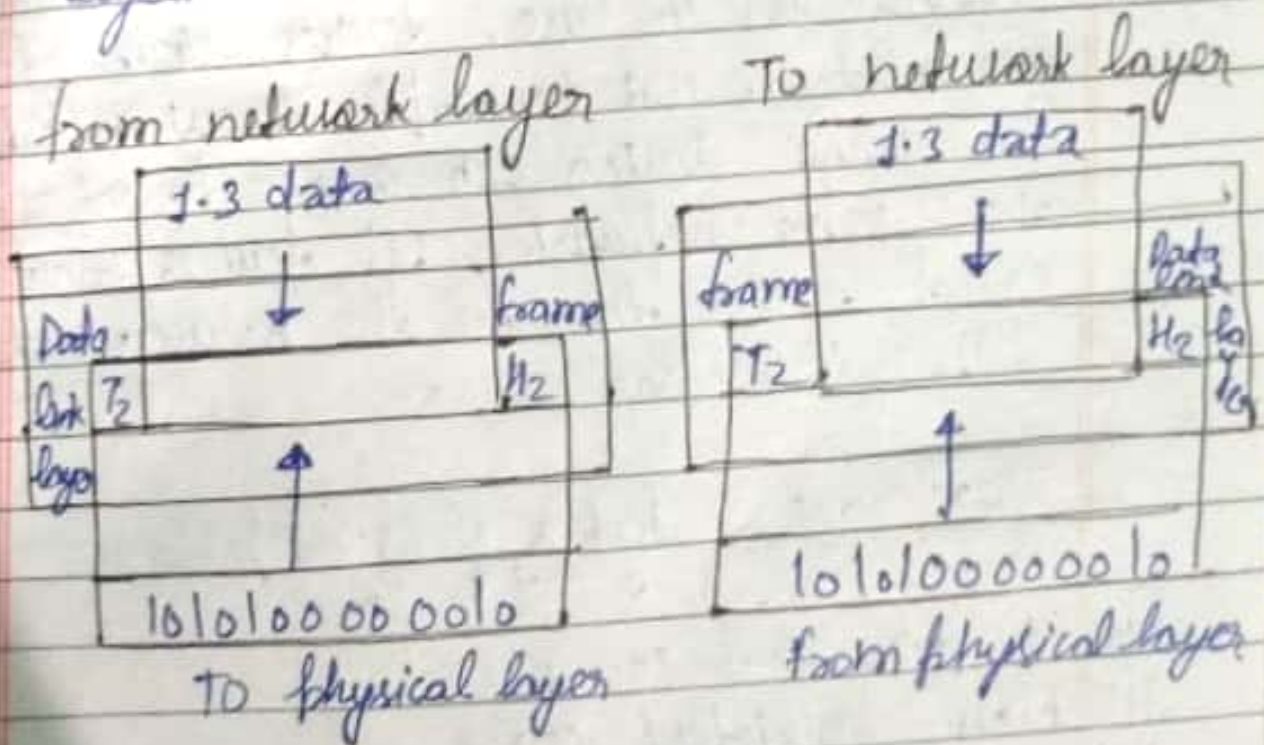
side to evaluate the expression.  
Find the value  $v_j$  in the list of  
cases that is the same as the  
value of the expression.

\* Translation scheme for statement that  
alters flow of control.

In case of If then-else, If we  
evaluate to be true, first's will  
be executed. After this we should  
ensure that instead of second the  
side after the if then else will  
be executed.

## 2] Data link layer:

- i) The data link layer transforms the physical layer, a raw transmission facility, to a reliable link and is responsible for made-to-trade delivery.
- ii) It makes the physical layer appear error free to the upper layer (network layer).



## 3] Session layer:-

- i) The session layer is the network dialog controller.
- ii) It establishes, maintains, and synchronizes the interaction between community system.