Static scoping is when functions uses variable declared in their environment and not related to untime but compiled time whites to contine departed to contine and is claded to contine that is claded to contine that is claded to contine that is also and is claded to contine that is claded to contine the value of the

In dynamic Scope, the function will output

3 since the most recent declared value is f

n is 1 whiles the output will be 4 in state

Scope because a will be evaluated to 3

funfx =
let val n = 3

x + n

In let val n = 1

in

end

end

when we evaluate # 1, the output will be 2 in dyminic scope while the output will be 4 in Static Scoping 4) A closure is a technique for implomenting state scoped name binding. Its a locard Storing a function together with an environment. A closure consists of a code pointer Cindicating what the function does and an environment containing the does and an environment containing the free values of the function. Its necessary to presence state of variables not to go out of scope Example. O Let val n=5 in fny = snty end. Let Vol 6=8

(a) Let $\sqrt{ab} = 8$ In $\sqrt{a} = 8$ end.