20. Incorrect. The answer is true not false. The turbine will generate:

400*24*365*0.25 = 876,000 kW per year

Total costs are:

$300,000 + $100,00= $400,000

The real capital cost per kilowatt hour $\$_k$ is:

$(400,000) = \Sigma(i=0, 40) [\$_k (876,00/(1+0.10)^i]$

$\$_k= 400,000 /\{\Sigma(i=0, 40) [876,000 /(1+0.10)^i]\}$

$\$_k=\$0.04236$ per kwh

Note that this price per kwh is about 12% less than the cost above in question 18.

$\$_{k(20\ years)} = \$0.048 => \$0.048 * (1 -0.1175) =\$0.04236 =\$_{k(40\ years)}$