$\therefore P(\text{Pass}) \, NW = 3/T = 0.6$

$P(\text{Fail}) \, NW = 2/T = 0.4$

entropy class 1 ~~~~~ $NW = -(~~~~~ 0.6 \times \log(0.6) + 0.4 \times (\log(0.4)) = 0.918$

$P(\text{Pass}) \, W = 1/5 = 0.2$

$P(\text{Fail}) \, W = 2/5 = 0.4$

entropy class 1 $W = -(0.2 \times \log(0.2) + ~~~~~ 0.4 \times \log_2(0.4)) = 0.811$

~~0.918 × 0.811~~ $= (5/10 \times 0.918) + (5/10 \times 0.811) = 0.865$

entropy class $-$ entropy class working status $= 0.947 - 0.865$

$= 0.082$