Hypothesis 1 Chi-Square Test

$\chi^2 = 23.538181175249132$

$df = (r-1)(c-1) = (5-1)(5-1) = 16$

1% → 32 10% → 23.54

5% → 26.3 (critical value)

Since $X^2 <$ critical value, our hypothesis will not be rejected. that current GPA and mood are dependent.

Hypothesis 2 Chi-Square Test

$\chi^2 = 16.794697097774023$

$df = (r-1)(c-1) = (5-1)(4-1) = 12$

1% → 26.22 10% → 18.55

5% → 21.03 (critical value)

Since $\chi^2 <$ critical value, our hypothesis will not be rejected that grades and work status are dependent on each other.