Term Test model Answers

Q1. That the 3-factor int is zero 1
(interaction between any two factors don't depend on the third) 1

Q2 mean response at level 1 decreases by .48346

at level 2 decreases by .78219

at level 3 decreases by 1.06219 2

Q3 multiplied by $e^{0.3} = 1.349859$ 2

Q4 $-57.375 + 32.588 \times 1.6907 = -2.278486$ 2

$1/(1+\exp(2.278486)) = 0.92922$

Q5 $1.6J089 \pm 0.174704 \times 1.95996$

i.e $(1.308, 1.993)$

Q6 Yes, since interaction is insignificant same for log odds. 2

Q7 Compare residual & null deviance no significant effect for any variable. ($p = .391129$) 2

Q8 Counts ~ $A*B + B*C + A*C$ 2

Q9 Condition is victim, DP & defendants race are independent. 2
(since def·dp & 3fi zero)

Q10

model 1 : counts ~ A * B * C

model 2 : counts ~ A + B * C