1)

The Variables that work the best are Income and Dem.Rep. HS and BA are poor predictors. This is based off of the significance of the models Pr > ChiSq values and the -2 Log L to Chi-Square values.

2)

a) e^-12.4251+.0000349=.000004 point estimate = 1

This value reflects the odds of voting for Obama while at the original Income (x=1). The value is most likely very small due to the income value being unproportionate/unadjusted.

b) With the adjustment of a 95% confidence interval the odds ratio becomes (0.000144, 0.000555)

c) Fitted equation: 12.4251-0.3494x

The adjusted equation will almost definitely boost the odds of winning.

d) slope estimate: e^: 12.4251-0.3494=175553.655

point estimate = 1.418

95% confidence interval: (0.1436, 0.5552)

3)

a) The chances of riding with a male is higher than with a female based off of a logit test. It shows significance, the logit test shows a negative increase (toward male divers) as x increases in the fitted equation.

b) The data shows significance and has an odds ratio of .833 which indicates that as the number of licenses goes up, the chance of drinking and driving goes up.

c) There is significance in the model and there is an odds ratio of .311 which indicates that there is an increase in drinking and driving as one smokes. In turn, this shows an increase in risky behavior if someone smokes.

4)

a) Dem.Rep being a close second.

b) HS has no significance in the model.

c) Arkansas had the largest residual/ very large positive deviance and the District of Columbia (D.C) had the smallest/ very large negative deviance.

d) In step 0 all variables are present. In a step 1 BA was eliminated. In step 2 Income was removed. This was the final elimination from the model.