503/650 2016: Assignment 6 – BRM part 2 Points missed:

**Your name: Name of TA:**

This assignment builds on Assignment 5. Before completing Assignment 6, make sure you understand any problems with Assignment 5. Talk to the instructor or your AI if you have questions. The factor variable you interpret is F, the continuous variable you interpret is C, and the other variables are X.

1. \_\_\_ of 15: Use mgen to plot the predicted probabilities over the range of C for at least two levels of F. In a second graph, plot the discrete change (with confidence intervals) for at least two categories of F over the range of C. Follow the “Workflow Requirements” document for presentation of graphs. Present and describe your plots.

Font for your answer

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1. \_\_\_ of 10: Interpret all unstandardized odds ratios and, as appropriate, standardized odds ratios for F and C as though they are part of a substantive paper. Include statistical significance in your interpretation.

Font for your answer

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1. \_\_\_ of 10: Compare the odds ratios for F and C to their AMEs. What do you conclude? What are the drawbacks of using only odds ratios to interpret results? What are the drawbacks of only using AMEs to interpret results?

Font for your answer

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1. \_\_\_ of 10: Estimate the probit model corresponding to the logit model. Present a professional table for F and C that compares the AME and shows the differences between the two models. This should include columns with (1) AMEs for logit, (2) AMEs for probit, and (3) the ratio of the two. Why are the AMEs in logit and probit so similar, but not exactly the same?

Font for your answer

1. \_\_\_ of 20: Write a paragraph describing the effects of F and C using any methods of interpretation (e.g., AMEs, MEMs, odds ratios). You cannot simply use one method of interpretation (e.g., only odds ratios) to describe effects. This should be written as though it is part of a substantive paper. This should take no more than two paragraphs. All else being equal, a shorter answer is more effective and harder to write.

Font for your answer

1. \_\_\_ of 10: Assessment of the overall effectiveness of your answers.

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