Final Examination Questions

(50 scores) (50 Scores will be based on the manuscript)

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**Based on the attached article, please answer the following questions:**

**Part A: Research Methodology** (30 scores)

1). What is the primary research question? (2 scores)

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2). What is the type of the research design? (2 scores)

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3). What is dependent variable that is the primary outcome of this study? Please specify name and type of the variable. (2 scores)

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4) What is(are) independent variable(s) of this study? Please specify name and type of the variable. (2 scores)

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5). What is the magnitude of effect that the author used for answering the primary research question? If there was none, please specify what should be reported for the same research question? (4 scores)

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6). What are biases that could make the results invalid? Please specify name and roles of each bias, i.e., the conclusion could be distorted in what way and by what mechanism. (8 scores)

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7). How can this research be improved? (10 scores)

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**Part B: Statistics** (20 scores)

8). Please comment on sample size calculation (5 scores)

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9). Please outline the data structure that would be used to obtain results as reported in the paper (5 Scores)

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10). Please provide dummy tables that should be presented in this study (10 scores)

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