Name (20 points): Arswer Key
BUS 230: Business and Economics Research and Communication Instructor: Dr. James Murray Quiz: Introductory Statistics Fall 2013
Suppose the UW-L advancement office conducts a survey of its alumni to determine what factors influence alumni's willingness to make donations. The survey includes the following questions:
• How often do you visit the La Crosse area?
 Rarely or never Once per three to five years.
- Once per year or two.
- More than once per year.
• What is your highest level of education?
 Four year baccalaureate degree Masters degree or juris doctorate degree. Doctorate degree.
 How many years has it been since you graduated from UW-L?
 Approximately how much money did you donate to charity in 2012?
- None - \$1 - \$100 - \$101 - \$500 - \$501 - \$1,000 - \$1,001 - \$10,000 - More than \$10,000
 Are you willing to be contacted by the UW-L Advancement Office regarding making a donation? Yes No

donate to charity?
A. Spearman correlation.
A. Spearman correlation. B. Ho: correlation = 0, Hr: correlation 70.
C. Two voriables, both ardinal,
looking for comovement.
2. (20 points) Is there a relationship between willingness to be contacted for a donation, and how often
A. Chi-Squared test. B. Ho. No relationship, HA Theren is a relationship
B. Ho. No relationship, HA: Theren is a relationship
C. Two variables, both categorizal
3. (20 points) Is there a difference in the time it has been since an alumnus graduated between graduates who are willing to make a donation and those who are not?
A. Independent Samples T-test.
B, Hor M, = M2 HA: M, 7 M2
C, Two variables, time is internal ratio;
looking for différence, indépendent 95 oups.
4. (20 points) Is there a difference in how much people donate to charity between graduates who are willing to make a donation and those who are not?
A. Mann Whitney U-test
B. Ho: median, = medianz Hr. median, + Medianz
C. Two voriables, charity contributions is
on an ardmal scale, differences,
independent groups.

For each of the research questions below, answer the following:

C. Describe the characteristics of the question and the data led you to the statistical test.

1. (20 points) Is there a relationship between the level of education a person has and how much they

A. Select the appropriate statistical test
B. State the null and alternative hypotheses.