Assignment - 5

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1) In hypothesis testing, it is assumed that samples are taken from a normal distribution with random or non-random sampling technique.  
   - True  
   - False
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: False

2) The outcome of a statistical study rejects the Null hypothesis when actually it is true.  
   - Type - I Error  
   - Type - II Error
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Type - I Error

3) The Municipality is going to create a new waste management depot in the city and thus requires to locate the facility. A statistical study was developed that will survey each society for collecting an estimate on the amount of waste it generates.
   There are 70 different societies in the city and the survey was performed in 14 of them. The average waste generated by these 14 societies is 22 units of waste with a standard deviation of 5 units.
   What is the sampling ratio in this study?
   - 0.5  
   - 0.45  
   - 0.2  
   - 0.25
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: 0.2

4) The Municipality is going to create a new waste management depot in the city and thus requires to locate the facility. A statistical study was developed that will survey each society for collecting an estimate on the amount of waste it generates.
   There are 70 different societies in the city and the survey was performed in 14 of them. The average waste generated by these 14 societies is 22 units of waste with a standard deviation of 5 units.
   Create a 90% Confidence interval for the mean waste generation.
   - (17.84, 35.32)  
   - (20.24, 35.29)  
   - (15.19, 23.48)  
   - (19.80, 24.20)
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: (19.80, 24.20)

5) The Municipality is going to create a new waste management depot in the city and thus requires to locate the facility. A statistical study was developed that will survey each society for collecting an estimate on the amount of waste it generates.
   There are 70 different societies in the city and the survey was performed in 14 of them. The average waste generated by these 14 societies is 22 units of waste with a standard deviation of 5 units.
   The experiments believe that the mean waste generation of the city is 30 units. Using the confidence intervals calculated above, answer the following.
   - Null hypothesis will get rejected.
   - Null Hypothesis will not get rejected.
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Null hypothesis will get rejected.