Unit 5 - Week 3

Course outline

How does an NPTEL online course work?
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Week 3
- Lecture 11 : Sampling Theory - 1
- Lecture 12 : Sampling Theory - 2
- Lecture 13 : Data and Surveys
- Lecture 14 : Transport Planning surveys Part1
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Assignment 3

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

Due on 2020-10-07, 23:59 IST.

1) Cluster sampling is a type of *1 point*
   a. Probability sampling
   b. Non-probability sampling
   c. Targeted Sampling
   d. Controlled Sampling

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
a

2) Non-probability sampling surveys are useful for *1 point*
   a. Qualitative studies
   b. Quantitative studies
   c. Exploratory studies
   d. Both a & c

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
d

3) Only available responders are surveyed in *1 point*
   a. Judgmental sampling
   b. Convenience sampling
   c. Consecutive Sampling
   d. Snowball sampling

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
b

4) Available responders are asked for contacts of potential responders in *1 point*
   a. Convenience Sampling
   b. Purposive sampling
   c. Snowball sampling
   d. Panel survey

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c

5) Two data sets are compared for some statistical relationship in *1 point*
   a. Population parameter estimation method
   b. Hypothesis testing method
   c. All of the above
   d. None of the above

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
b

6) The Central Limit Theorem says that the sampling distribution of the sample mean is approximately normal if *1 point*
   a. All possible samples are selected
   b. The sample size is large
   c. The standard error of the sampling distribution is small
   d. The sample size is small

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
b

7) The Central Limit Theorem says that the mean of the sampling distribution of the sample means is *1 point*
   a. Equal to the population mean divided by the square root of the sample size
   b. Close to the population mean if the sample size is large
   c. Exactly equal to the population mean
   d. Equal to the population mean divided by the square of the sample size

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c

8) The mean age of workers in a company is 45 and the standard deviation is 6. Random samples of 36 workers are regularly taken and a sampling distribution is constructed. What is the standard deviation of the sampling distribution? *1 point*
   a. 5
   b. 1
   c. 0.2
   d. 0.5

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
b

9) What is the critical value z for constructing a 99% confidence interval? *1 point*
   a. 1.96
   b. 2
   c. 2.58
   d. 1

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c

10) Cochran's formula for calculating sample size, when the population is infinite is *1 point*

a. $n_m = \frac{z^2 \sigma^2}{e^2}$

b. $n_x = \frac{z^2 p.q}{e^2}$

c. $n = \frac{n_x}{1 + \frac{(n_x - 1)}{N}}$

a.
b.
c.

No, the answer is incorrect.
Score: 0
Accepted Answers:
b

11) The central tendency of mode is associated with *1 point*
   a. Nominal Scale
   b. Ordinal scale
   c. Both of the above
   d. None of the above

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
a

12) Hypothetical choice alternatives are associated with *1 point*
   a. Revealed preference
   b. Stated preference
   c. Hidden preference
   d. Both a & b

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
b

13) In Referendum Contingent Valuation, a person is asked *1 point*
   a. If he/she is willing to pay a certain amount
   b. To choose from a list of amounts
   c. How much he/she is willing to pay
   d. How much she/he is paying

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
a

14) What is the sample size for a population of 100,000 considering level of precision ±5%? Use Yamane's formula. *1 point*
   a. 580
   b. 678
   c. 398

a.
b.
c.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c

15) Which of the following requests is made using HTML forms? *1 point*
   a. GET
   b. POST
   c. SET

a.
b.
c.

No, the answer is incorrect.
Score: 0
Accepted Answers:
b

16) Two applications can interact with each other using *1 point*
   a. HTTP
   b. SQL
   c. API

a.
b.
c.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c

17) Absolute zero can be accommodated by *1 point*
   a. Interval scale
   b. Ratio scale
   c. Both

a.
b.
c.

No, the answer is incorrect.
Score: 0
Accepted Answers:
b

18) A certain variety of pine tree has a mean trunk diameter of 150 cm and a standard deviation of 30 cm. Approximately, what percent of these trees have a diameter greater than 210 cm? *1 point*
   a. 5%
   b. 7.5%
   c. 2.5%
   d. 1%

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c

19) Following are the marks obtained by a class of students in Transportation Planning *2 points*

Raj	Ravi	Satya	Ayan	Ali
60	85	70	65	70

What is Ravi's Z-score?
   a. 1.8
   b. 1
   c. 1.5

a.
b.
c.

No, the answer is incorrect.
Score: 0
Accepted Answers:
a