

Past Papers

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



**FINAL – Lecture 9-16 (3<sup>rd</sup>- 4<sup>th</sup> weeks)**  
**COMMUNITY**

﴿ وَإِن تَتَوَلَّوْا يَسْتَبَدِلْ قَوْمًا غَيْرَكُمْ ثُمَّ لَا يَكُونُوا أَمْثَلَكُمْ ﴾

اللهم استعملنا ولا تستبدلنا

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First we will start with (30) past Qs

Then, (0) Book's Qs

and finally, (0) test bank Qs

( all Qs will be by default past unless it  
is written to be test bank )

Q1) A researcher needed to recruit a sample of 120 mothers of children with autism. The researcher visited an autism center and recruited 24 women, and asked each of them to connect him with other mothers of kids with autism, and so on, until the sample size was reached, this is an example of?

- A) Snowball sampling
- B) Cluster sampling
- C) Stratified sampling
- D) Simple random sampling
- E) Convenience sampling

Answer : A

Q2) The highest level of variable measurement, in which zero means a complete absence of the measured quantity is ?

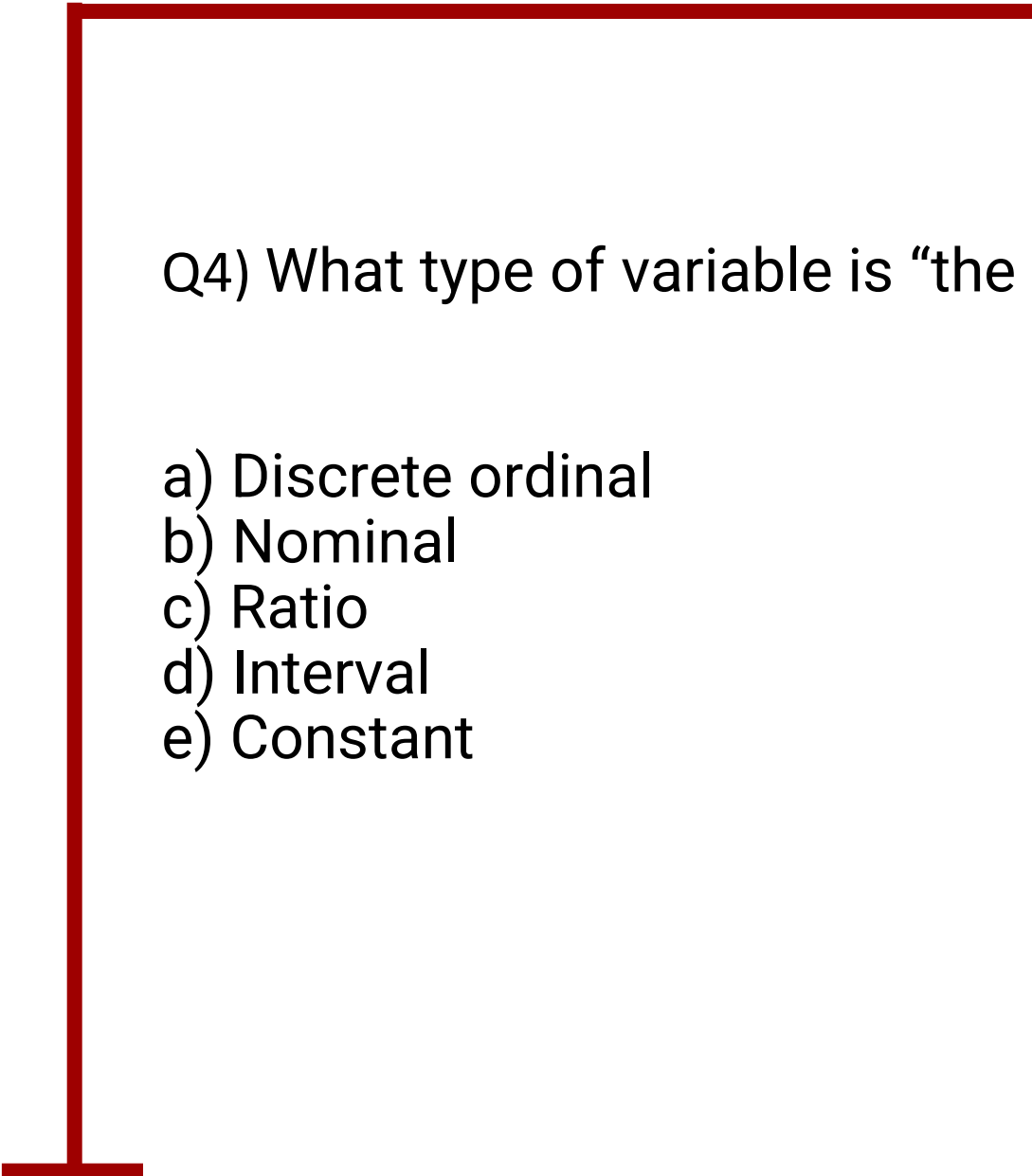
- A) Ratio
- B) Nominal
- C) Interval
- D) Categorical
- E) Ordinal

Answer : A

Q3) Which of the following statements is correct regarding quotes sampling?

- A) It takes the whole group (clusters) of people into the sample randomly
- B) It guarantees an equal chance for all sampling frame members to be picked
- C) It respects and preserves real-life proportions in the population
- D) It is one of the probability sampling techniques
- E) Intentionally oversamples some minorities

Answer: C



Q4) What type of variable is “the level of performance”?

- a) Discrete ordinal
- b) Nominal
- c) Ratio
- d) Interval
- e) Constant

Answer: a

Q5) A researcher wanted to study the relationship between the number of studying hours and the level of performance of medical students. he went to three major medicine faculties to choose his subjects. The way he chose them was by taking every student in all sections numbered 1 and 2 of all basic years ending up with a sample size of 2436. Answer the following questions 6, 7, 8:

6. What was his method of sampling?

- a) Convenience sampling
- b) Stratified sampling
- c) Cluster sampling
- d) Systematic sampling
- e) Multistage sampling

Answer : C

7. The number of studying hours resemble which one of the following variables?

- a) Dependent variable
- b) Independent variable
- c) Confounding variable
- d) Silent variable
- e) Extraneous variable

Answer: b



8. The colleges the researcher chose the subjects from are considered:

- a) Study population
- b) Sampling frame
- c) Reference population
- d) Study subjects
- e) Environment of the study

Answer: B in past

Next slide is why we think its A

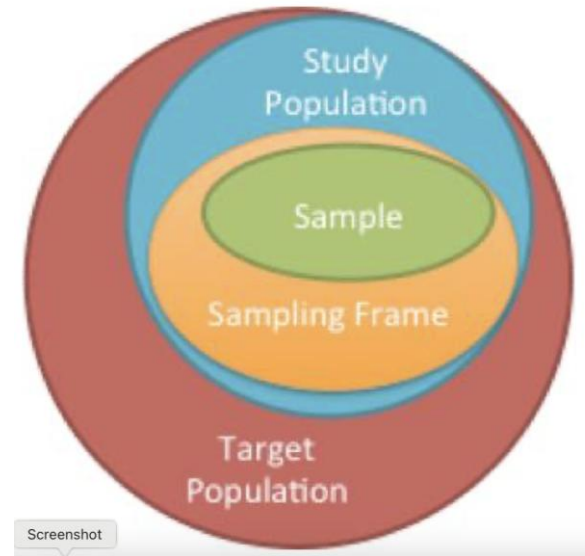
From Slides:

- ❑ To whom are the results going to be generalized? **Reference population**
- ❑ What is the group of people from which we want to draw a sample (**study population**)?

Sampling Frame: A list or representation of all clusters in the population from which the sample will be drawn. Primary Sampling Units (PSUs): The clusters selected for inclusion in the sample. Secondary Sampling Units (SSUs): The individuals or units within the selected clusters sampled for data collection. Apr 3, 2024

 Appinio  
<https://www.appinio.com> > ... > Blog > Market Research

[What is Cluster Sampling? Definition, Methods, Examples](#)



We think it's a not b. There are two populations.

Medical students are the reference (target) population – so c is wrong

Medical students in these three colleges are the study population – a

The Sample frame is all the Sections (clusters) in the selected universities – so b is wrong

Also a sampling frame is not required in this study as it's Cluster sampling.

The sample is all the students in the sections 1 and 2

Q9) A researcher needed to recruit a sample of 120 mothers of children with autism. The researcher visited an autism center and recruited 24 women, and asked each of them to connect him with other mothers of kids with autism, and so on, until the sample size was reached, this is an example of?

- a. Stratified sampling.
- b. Simple random sampling.
- c. Cluster sampling.
- d. Snowball sampling.
- e. Convenience sampling

Answer: d

Q10) The highest level of variable measurement in which zero means a complete absence of the measured quantity is?

- a. Categorical.
- b. Ordinal.
- c. Ratio
- d. Nominal.
- e. interval

Answer : C

Q11) A researcher is studying a population of 24,000 individuals. From this population, they select a sample of 1,435 individuals by choosing every 100th certificate from a list. Which sampling method is being used?

- A. systematic
- B. simple
- C. cluster
- D. quota
- E. Snowballing

Answer : A

Q12) The following ranking indicates how frequently a patient with depression visits the psychiatry clinic. To which level of measurement does this data belong:

- A. Discrete
- B. Ordinal
- C. Continuous
- D. Nominal
- E. Categorical

Answer : B

Q13) Which probability sampling method is more suitable for representing minor ethnicities in equal chance of groups selection?

- A. Cluster sampling
- B. Stratified sampling
- C. Systematic sampling
- D. Simple random sampling
- E. Quota sampling

Answer : B

Q14) Which sampling method is most appropriate for conducting a study on alcoholics, where participants are difficult to locate?

- A. Simple Random Sampling
- B. Stratified Random Sampling
- C. Snowball Sampling
- D. Systematic Sampling
- E. Quota sampling

Answer : C



Q15) A researcher wanted to study the difference in prevalence of smoking between males and females in a certain population. He used a chi square test to analyze the data as shown in the picture to the side. The degree of freedom in his test is :

- a) 1
- b) 171
- c) 161
- d) 332
- e) 2

		Gender		Total
		Male	Female	
Do you smoke cigarettes?	Nonsmoker	149	148	297
	Past smoker	13	24	37

Answer : a

Q16: You have the following group of numbers:  
71 74 77 100 94 83 101 108 76 87 83 99 84 87 98 103 83 75.  
answer the following questions 2, 3 & 4 The mean of the  
numbers:

- a) 88.2
- b) 90.3
- c) 92
- d) 87.9
- e) 86.9

Answer :d

Q17) Fifth Decile (median):

a) 84.5

b) 81

c) 84

d) 85.5

e) 78

Answer : d

Q18) IQR:

a) 15

b) 22

c) 23.5

d) 24

e) 19.7

Answer : b

Q19) Which of the following statements is correct regarding measures of central tendency?

- a) Mean, median, and mode are always the same regardless of normality.
- b) Mean, median, and mode are always different regardless of normality.
- c) Median is the same as Q1
- d) A sample can only have one mode
- e) Mean is more sensitive to extreme values than median.

Answer : e

Q20) What do we call an individual sample member whose  $X$  is located one-fifth the range from the left?

- a. The median
- b. The first decile
- c. The twentieth percentile
- d. The second quintile
- e. the first quartile

Answer : c

Q21) All of these are median formula except:

- A. 2nd quartile
- B. 5th decline
- C. 50th percentile
- D. 2nd quantile
- E. All of the above are formulas of median

Answer : d

Q22) If the sample is skewed to the right ,  
Mean = 226, Median = 216, then The mode:

A. 226

B. 216

C. 206

D. 275

E. Could be any option and can't be determined with given information

Answer : c



Q23) An observation have taken from a sample with a mean = 30 and a standard deviation = 6 , If you know that the observation equal to 60 , How many standard deviation this observation is far from the mean .

A. 7

B. 3

C. 2

D. 5

E. 6

Answer : D

Q24) A samples with a mean=20 and a standard deviation = 60 the coefficient of variation will equal :

- A. 300%
- B. 30%
- C. 3%
- D. 600%
- E. 200%

$$CV = \frac{S}{\bar{X}} (100\%)$$

Answer : a

Q25) Which of the following statements is correct regarding variance?

- a. it is one of the measures of location.
- b. It appears in the 5-number summary.
- c. It is used in the calculation of standard error in some inferential statistical tests
- d. it is the square root of standard deviation.
- e. it is easily influenced by extreme values.

Answer : c

Q26: A researcher provided her sample results regarding family monthly income in the form of a 5-number summary as follows: [JD 275, JD 375, JD 475, JD 675, JD 1225] , the results of this sample can be described as?

- a. Standardized
- b. symmetric
- c. Normally distributed
- d. skewed to the right
- e. Skewed to the left.

Answer: d

Q27) If you belong to a normally distributed population with a mean height of 160 cm, and a standard deviation of 10 cm. What is the probability that your height is 160 cm or taller?

- a. 100%
- b. 50%
- c. 99.7%
- d. Cannot be determined
- e. 68%.

Answer : b

Q28) Which of the following statements is correct?

- A. IQR is always smaller than the range
- B. IQR contains 75% of the data
- C. IQR cannot be calculated for non-symmetrical data
- D. IQR is the difference between  $D_3$  and  $D_1$
- E. None of the above

Answer: a

Q29) A researcher wants to compare the mean age of three groups of employees (Dentists, Physicians, Nurses). The appropriate statistical test to use is:

- A. Kruskal wallis
- B. Paired sample t-test
- C. Pearson's Chi-square
- D. Analysis of variance (ANOVA)

Answer: D

Q30) A researcher wants to compare mean blood glucose level in 3 samples; type 1 diabetic patients, type 2 diabetes patients, and healthy people, the appropriate test statistic to use is?

- A. Parametric; analysis of variance (ANOVA).
- B. Parametric; independent samples t test.
- C. Non-parametric; Kruskal Wallis H.
- D. Parametric; paired sample t test.e. Non-parametric; Pearson's Chi-square

Answer: A



For any feedback, scan the code or click on it.



Corrections from previous versions:

Versions	Question #	Before Correction	After Correction
V1 → V2			
V2 → V3			