PAST QUESTIONS

&

ANSWERS <directly from test / exam questions>.

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AbSharp & Friends

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1) Elimination of interviewer bias is an advantage of
ANS. QUESTIONNAIRE

2) There are four major sources of statistical data. These are ANS. PUBLISHED SOURCES, DESIGNED EXPERIMENTS, SAMPLE SURVEY, DIRECT OBSERVATION

3) The process of arranging the data in groups or classes according to their resemblances is
ANS. CLASSIFICATION

4) If data is not already available but it is needed to help solve a problem it has to be collected. This data is called? ANS.

5) When a random sample is taken from each selected cluster at each stage or level, the sample becomes — ANS. MULTI-STAGE

6) The following are kinds of sample design except
ANS.

7) Part of the population selected for analysis is called ANS STRATA

8) For the data set 2, 4, 6, 8. Calculate the Mean Deviation ANS 2

9) If the mean of the set of data 2, 4, 6, 8 is 5. Find the sum of the squares of the deviation of items from the mean. ANS. 5

10) The daily number of rejected items detected from the separate output of two industrial machine over fourteen days were Machine X 4, 7, 1, 2, 2, 6, 2, 3, 0, 4, 5, 3, 7, 4
Y 3, 2, 2, 3, 3, 2, 4, 1, 1, 3, 2, 4, 2, 2
What is the range of values for machines X and Y respectively ANS 7 and 3

11) Given the data 7, 1, 10, 8, 14, 2 and 13. Obtain the range ANS 13

12) A Stratified Sample of size n = 600 is taken from a population of size N = 5000, which consist of three Strata of size N1 = 750, N2 = 850, N3 = 3400. If sample is to be proportional to size of strata. How many sample should be taken from each Stratum
ANS. 90, 102, 4080

(13) — is the collection of information on every member of the population of study
ANS. SIMPLE RANDOM

(14) Data collection can be divided into three broad method. namely ANS.
ANS. DATA COLLECTION METHODS
DATA COLLECTION PLANS
DATA COLLECTION APPROACHES

(15) A good questionnair should be —
ANS. SIMPLE AND EASILY UNDERSTOOD

(16) A Sampling design in which the population is divided into small groups
ANS. CLUSTER

(17) The respondent can easily terminate the interview if annoyed by questions is a disadvantage of —
ANS. TELEPHONE INTERVIEW

(18) Which of the following is not a measure of central Location? ANS.

(19) Find the mode of the following set of data
4, 1, 2, 4, 3, 3, 2, 5, 4, 5, 3, 1, 2, 0.
ANS. 2, 3 and 4

(20) Given that size is 8 and n = 14 from a population size of 36. Give the first five number selected from the population.
ANS

(21) Find the median of the following data
6, 4, 5, 2, 3 ANS. 4

(22) Suppose a machine produce 5, 3, 5, 2, 1 defective per day. What is the mean number of defective per day
ANS 3.4

23] Determine the Upper Quartile (Q_3) for the set of values 7, 4, 5, 3, 3, 9, 8.

ANS.

24] The data set 2, 4, 6, 8 has A.M = 4.67, H.M = 4.43 & G.M = 4. Which of the following relationship is always true?

ANS.

25] A researcher has collected the following data. The mean of the sample is 5. 3, 5, 12, 3, 2 Obtain the coefficient of variation.

ANS 72.6%

26] The deviations of the numbers 8, 3, 5, 12 from their arithmetic mean are

ANS -1, -4, -2, 5

27] Compute the standard deviation of the following set of data. 8, 3, 5, 12

ANS

28] Calculate the Harmonic mean of the retail price indexes of cough syrup in six selected towns in Nigeria.

174, 137, 158, 130, 149, 137

ANS.

29] Find the median of the following set

6, 4, 5, 2, 3. ANS. 4

30] The variance of a sample of 81 observation equals 64. The Standard deviation of the sample is

ANS. 8

31] Find the mode 4, 1, 2, 4, 3, 3, 2, 5, 4, 5, 3, 1, 2, 0 ANS 2, 3 & 4

32] Obtain the median

X	1	2	3	4
F	4	6	5	5

ANS 3

33] Find the mean and the mean deviation of the following 39, 51, 47, 50, 47

ANS. 50 and

34] Calculate $Y = 19.33 + 0.42X$ $X = -11$.

ANS.

35] Determine the Coefficient of Variation a set of values with mean = 10 and Variance = 64.

ANS. 80%

36] Find the mean and the Standard deviation of the following 43, 75, 48, 39, 51, 47, 50, 47.

ANS. 50 and 8.66