

## Statistics - ICS Part 2 Statistics English Medium Chapter 2 Short Questions Preparation

Q1. What is a bias ?

**Ans 1:** Any attitude or operation, which deprives a statistical result of its true and actual representativeness.

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Q2. What is random sampling ?

**Ans 1:** it is the process of selecting a part or some elements from the population using probability theory.

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Q3. How many samples of size  $n$  can be drawn from a population having  $N$  elements when sampling is done with replacement ?

**Ans 1:** Number of total possible samples will be  $N^n$ .

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Q4. What is statistic ?

**Ans 1:** It is the numerical descriptive of sample.

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Q5. What is stratified sampling ?

**Ans 1:** It is a sampling scheme in which proportionate number of sampling elements are randomly selected from different strata's or groups of a heterogeneous population.

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Q6. What is meant by sampling distribution of means ?

**Ans 1:**

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Q7. What is a sampling error ? How can we reduce this error ?

**Ans 1:** It is the difference between a statistic and respective parameter. It can be reduced by employing better technique, supervision, randomness and increasing the sample size.

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Q8. What is meant by sampling distribution ?

**Ans 1:**

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Q9. How many samples of size  $n$  can be drawn from a population having  $N$  elements when sampling is done without replacement ?

**Ans 1:**

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Q10. What is meant by a random sample ?

**Ans 1:** If  $n$  elements are selected from a population in such a way that every set of  $n$  elements are said to be a random sample.

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