

2024

STATISTICS — GENERAL

Paper : SEC-A-2

(Research Methodology)

Full Marks : 80

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

1. Answer **any fifteen** of the following questions :

2×15

- (a) Write two objectives of conducting research.
- (b) Mention two sources of secondary data.
- (c) What is a sample design?
- (d) What do you understand by research?
- (e) Define critical region in the context of testing of hypothesis.
- (f) State two characteristics of a good questionnaire.
- (g) What is a statistic?
- (h) Distinguish between population and sample.
- (i) What is a schedule?
- (j) What is the difference between survey and experiment?
- (k) Give an example for each of ratio scale data and interval scale data.
- (l) What do you understand by a treatment?
- (m) What is qualitative research?
- (n) What do you mean by a dependent variable?
- (o) What is a hypothesis?
- (p) What is stratified sampling?
- (q) What is personal interview method?
- (r) What is extraneous variable?
- (s) What is a pilot survey?
- (t) What are the different parts of a table?

Please Turn Over

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2. Answer **any six** questions from the following :

5×6

- (a) Distinguish between SRSWR and SRSWOR.
- (b) Describe the method of selecting a random sample without replacement using random sample numbers.
- (c) Write a short note on criteria of good research.
- (d) Write a short note on longitudinal research.
- (e) What is the role of statistics in research?
- (f) Describe the different measures of central tendency.
- (g) Write a short note on the basic principles of designing an experiment.
- (h) Distinguish between discrete and continuous variables with examples.

3. Answer **any two** questions from the following :

10×2

- (a) Discuss the role of research in important areas.
 - (b) Discuss, in detail, different types of sampling designs.
 - (c) Describe, in detail, methods of primary data collection.
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