

2022

ECONOMICS — HONOURS

Paper : SEC-B(2)-1

(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.*

Group - A

1. Answer **any ten** questions :

2×10

- (a) State the meaning of research.
- (b) What is the necessity of defining a research problem?
- (c) Why do we need to review the existing literature?
- (d) What are the features of a research design?
- (e) Distinguish between population and sample.
- (f) What is multi-stage sampling?
- (g) Mention two advantages of the observation method of data collection.
- (h) Why is tabulation considered essential in a research study?
- (i) Under what circumstances would you recommend a stratified or cluster sampling?
- (j) What is Likert's scale?
- (k) What is the role of statistical inference?
- (l) What is ANOVA and mention one use of ANOVA.
- (m) What are the endnotes in a research paper?
- (n) What is the difference between reference and bibliography?
- (o) What are the conditions in which Type-I error occurs?

Group - B

2. Answer **any four** questions :

- (a) Mention different steps involved in a research process. 5
- (b) How do you define a research problem? Illustrate with examples. 2+3
- (c) Distinguish between : 5
 - (i) Applied and fundamental research
 - (ii) Conceptual and empirical research.

Please Turn Over

- (d) What are the various sources of error in measurements? 5
- (e) Differentiate between bivariate analysis and multivariate analysis. 5
- (f) 'Reliability is a necessary but not sufficient condition for validity'-express your opinion. 5

Group - C

Answer *any four* questions.

3. (a) What factor does a researcher take into account in selecting the methods for data collection?
 (b) "Empirical research in India in particular creates so many problems for the researchers". State the problems that are usually faced by such researchers. 5+5
4. Briefly enumerate different methods of collecting data. Which one do you consider as the most suitable method for conducting enquiry regarding family welfare programme in India? Explain with reasons. 5+5
5. (a) The procedure of testing hypothesis requires a researcher to adopt several steps. Describe in brief all such steps.
 (b) Discuss the significant role of statistical inference in empirical research. 5+5
6. (a) Examine the importance of Chi-Square test in economic research.
 (b) Following data on the mode of transport people use to get to their workplace, were obtained from a survey of 100 office-goers in a city :

Auto	Bus	Train	Taxi	Private Car
24	22	25	15	14

What can be the suitable diagram for representing above data and why?

- (c) What is meant by the power of a test? 4+3+3
7. (a) Discuss common sections of an ideal research paper in economics.
 (b) Explain why interpretation is considered to be a fundamental component of research process. 6+4
8. Write short notes on *any two* : 5×2
- (a) Criteria of a good research.
- (b) Difference between sampling and non-sampling error.
- (c) Use of non-linear differential equation for stability analysis.
- (d) Advantages and disadvantages of interview method.
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