

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 :

- (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.
- (b) How do you define a research problem? Illustrate with examples.
- (c) Distinguish between :
 - (i) Applied and fundamental research.
 - (ii) Conceptual and empirical research.

Please Turn

- (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? 5
- (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. 5
- (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. 5
- (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. 6
- (b) Explain why interpretation is considered to be a fundamental component of research process. 6+4
- 8. Write short notes on *any two*: 5x2
- (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.