

[2]

Ex/PHDLIS-03/1.1/2023

**PHD COURSE WORKING IN LIBRARY &
INFORMATION SCIENCE EXAMINATION, 2023**

(1st Year, 1st Semester)

QUANTITATIVE TECHNIQUES

Course : PHDLIS-03

Time : Two Hours

Full Marks : 50

The Figures in the margin indicate full marks.

Answer all questions.

2. B) What are meant by sample and population ? Why do we draw sample(s) from a population ? Describe briefly different types of sampling technique. 3+2+15
3. Write short notes on *any two* of the following : 5x2
- a) ANOVA
 - b) Statistical software
 - c) Time series analysis
 - d) Correlation and Regression.

1. A) What is data analysis in research ? Why is it needed ? Mention different types of data in research. Discuss how do you make data analysis with qualitative and quantitative data. 3+2+3+12

Or

1. B) Discuss in detail how do you collect, organize and present different types of research data. 20
2. A) What is meant by 'Testing of hypotheses' ? Why is it needed ? Differentiate between Parametric and Non-Parametric tests. Discuss in brief the pre-requisites for applying t-test, z-test and χ^2 (chi-square) test.

3+2+2+12

Or

[Turn over