

2017

M.Phil.

1st Semester Examination

LIFE SCIENCE

PAPER—LSC-111

Full Marks : 40

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

Group—A

1. Answer *any four* questions from the following : 4×2
- (a) What do you mean by non-parametric data ?
 - (b) How do you convert data to information ?
 - (c) What is meant by extramural research project ?
 - (d) What is confidence interval in Testing of Hypothesis ?

(Turn Over)

- (e) What do you understand by qualitative research ?
- (f) Define citation index.

Group—B

2. Answer any *four* questions from the following : 4×4
- (a) What are the basic points considered during evaluation of a research problem ? 4
- (b) Discuss briefly the concept of ethics, integrity and trust in research. 4
- (c) What is meant by sampling ? Distinguish between probabilistic and non-probabilistic sampling. What is sampling error ? 1+2+1
- (d) What is a research report ? Briefly describe the problems associated with data processing in research. 1+3
- (e) State and explain Bradford's law of bibliographic scattering. 4
- (f) Describe the general guidelines in writing literature review. 4

Group—C

3. Answer any *two* questions from the following : 2×8

(a) Define 2-years Journal Impact Factor and Journal Immediacy Index. Define h-index of an author. Do you think h-index says the ultimate word about the quality of an author? Justify your answer.

2+2+2+2

(b) Write the major objectives of Basic Reserch. "Basic and applied research are complementary to each other"—Justify the statement. What do you understand by validity and reliability of research study.

2+3+3

(c) How do you clarify the feasibility of a research project proposal? Discuss the technique of budgetary formulation in research.

4+4
