M.Phil 1st Semester Examination, 2019

LIFE SCIENCE

(Research Methodology)

PAPER -LSC-111

Full Marks: 40

Time: 2 hours

The figures in the right-hand margin indicate marks

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

GROUP - A

Answer any four questions .

1.	Answer any four questions:	2×4
	(a) What is a pilot-study?	2
		2

- (b) Write the basic steps in formulating a research problem.
- (c) What are dependent and independent 1 + 1variables?

2

- (d) What are copy-right laws? Are all published works copy righted?
- (e) What are the main ethical issues in the survey research method? Briefly describe each.
- (f) Define two year journal impact factors. 2

GROUP - B

- 2. Answer any *four* questions: 4×4
 - (a) What is a research hypothesis? Define Convenience sampling. What do you understand by scaling techniques in research methodology? 1+1+2
 - (b) What is explanatory research? What is the difference between deterministic and probabilistic concepts of causation? 2+2
 - (c) "Citation Indexes have scientific significance of published results" What is the relationship between them? How citation index is calculated?

 2+2

- (d) Write briefly about the data collection techniques used in research. Add a note on the limitations in data collection. 2+2
- (e) What do you understand by the characteristics of a good research question for a Literature Review? How do we structure a literature review?
- (f) What do you mean by single blind, double blind and triple blind study? What is applied research?

GROUP - C

3. Answer any two questions:

 8×2

- (a) What is the difference between inductive and deductive approaches to research? State the importance of triangulation in research.
 What is a panel study?
- (b) What are the guidelines to publish quality paper without plagiarism? Give examples of

(4)

four plagiarism ditection software which are used for screening the text. What are the penalties for plagiarism in academic ? 4 + 2 + 2

(c) Write the reliability and validity of data. State the importance of research hypothesis.

(2 + 2) + 4