

Ph. D. (LIFE SCIENCES) (PHDLS)

Term-End Examination

December, 2024

RLS-101 : RESEARCH METHODOLOGY

Time : 3 Hours

Maximum Marks : 100

Note : (i) Answer any **five** questions from
Q. Nos. 1 to 8.

(ii) All questions carry equal marks.

(iii) Give examples, wherever necessary to
support your answer.

1. Discuss the criteria of a good research. How a student can be motivated extrinsically and intrinsically to do a good piece of research work ? 20
2. (a) Explain the meaning and significance of a research design. 10
(b) Discuss important research designs used in experimental hypothesis-testing research study. 10

3. (a) What are the basic postulates of scientific method ? Explain, how are they related to scientific research. 10
- (b) "Research is much concerned with fact-finding, analysis and evaluation." Comment on this statement. 10
4. What are the *two* basic approaches of research ? Why is it important to know how research is done ? 20
5. What is bioethics ? Discuss with examples the need for bioethics in research. 20
6. (a) What is Plagiarism ? What steps should be taken to avoid plagiarism in thesis writing ? 10
- (b) Which techniques should be employed in writing a review article and a report ? 10
7. Write short notes on any *four* of the following : 4×5=20
- (a) Ex-post facto research
- (b) Objectives of research
- (c) Research techniques

- (d) Hypothesis in research
 - (e) Annotated bibliography
 - (f) Empirical research
8. (a) What do you mean by “Sample Design” ?
What points should be taken into
consideration in developing research
project ? 10
- (b) Explain different steps in sample design.10

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