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REV-002

**Ph. D. IN ENVIRONMENTAL
SCIENCE (PHDEV)**

Term-End Examination

June, 2026

REV-002 : RESEARCH METHODOLOGY—II

Time : 3 Hours

Maximum Marks : 100

Note : (i) Answer any *five* questions.

(ii) All questions carry equal marks.

1. Distinguish between correlation and regression analysis. Provide a situation where both techniques would be used together to understand the relationship between variables in a research study. 20
2. What constitutes a good research proposal ? Design a comprehensive check list to evaluate the research work. 20

3. Discuss the ethical considerations in Ph. D. research with a specific focus on plagiarism. What are the various forms of plagiarism ? What is the role of ICT in preventing and detecting the plagiarism ? 20
4. (a) Explain the significance of footnotes and bibliography in academic writing. 10
(b) Write short notes on the following : 5+5
(i) Binomial and normal distribution.
(ii) Tests of Significance and Confidence Intervals.
5. What do you mean by sampling in research ? Explain various methods of sampling with suitable examples. 20
6. Discuss the fundamental concepts of file management and file transfer. How can a Ph. D Scholar use these principles along with e-mails, to organize their research files and collaborate with co-authors and supervisor ? 20

7. (a) How can a Ph. D Scholar effectively use web-based resources and open access journals to enhance their research ? 10
- (b) What are the advantages and disadvantages of the use of digital libraries and manual collection from a physical library ? 10

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