

F 2339

Reg. No.....

Name.....

Ph.D. COURSE WORK EXAMINATION, OCTOBER 2022

Course I—RESEARCH METHODOLOGY

(I—Common to the Stream : Science, Technology and Applied Sciences and
Engineering Technology)

[2020 Admissions]

Time : Three Hours

Maximum : 50 Marks

Part A

*Answer any ten of the following questions.
Each question carries 4 marks.*

1. Discuss in brief about the objectives of research.
2. Write a note on research method with respect to Scientific method vs Arbitrary Method.
3. What are the points to be considered while selecting a research problem ? Explain the process of problem formulation.
4. Summarize the literature review functions in research work and state the way in which it can help research.
5. What is correlation ? Explain its Characteristics and applications.
6. Explain different sources of Secondary data for research. What are the precautions to be taken while using secondary data ?
7. Discuss the types of hypotheses. Narrate the steps involved in testing of hypothesis.
8. Explain what cautions needs to be exercised in interpretation of data.
9. Differentiate between oral and poster presentation.
10. Explain, how the Impact factor of a journal is calculated.
11. Give the importance of IAEC in the field of biological research.
12. Write a short note on application of MS office in research.

(10 × 4 = 40 marks)

Part B

*Answer any one question from the following.
The question carries 10 marks.*

13. What is plagiarism ? Differentiate it from self-plagiarism. Name any two tools used to check it. State the basic principle behind these tools.
14. Explain in detail the various methods of collecting data.

(10 × 1 = 10 marks)