

Ph.D Course Work Examinations, July-2023

BIOTECHNOLOGY

Course-I: Research Methodology

Time: 3 hours

Marks: 70

Instructions: *All sections are compulsory*

SECTION-A

I. Answer any Five of the following questions in about one and half page each.

(5x5=25)

1. Topic selection in research
2. Report writing
3. Research hypothesis
4. Correlation
5. Gene Bank
6. Biochips
7. Protection of GMO'S

SECTION-B

II. Answer any Three of the following questions in about three pages.

(3x10=30)

8. Give detailed account on literature review in research.
9. Explain in detail quantitative experiment design.
10. Give detailed account on thesis writing and scientific editing.
11. Explain different methods of phylogenetic analysis.
12. Explain use of financial assistance for filing patents.

SECTION-C

III. Answer any One of the following questions in about four pages.

(1x15=15)

13. Give detailed account on sequence similarity searching using FASTA3, CLUSTAL W and CLUSTAL X tools.
14. Explain detailed account on various funding agencies for project proposals.
