

Ph.D Course Work Examinations, July-2023

MICROBIOLOGY

Course-I: Research Methodology

Time: 3 Hours

Max. Marks: 70

Instruction: Answer all Section

SECTION-A

I. Write Short Notes on any Five of the following Questions in about One and Half Page Each (5x5=25)

1. NCBI
2. Plagiarism
3. Orthogonal array
4. Multiple Sequence alignment and Phylogenetic tree
5. IPR
6. ANOVA
7. Trademarks

SECTION-B

II. Answer any Three of the following Questions in about Three Pages Each (3x10=30)

8. Presentation tools
9. Probability & Sampling distribution
10. Correlation and Regression
11. Use of Internet & www
12. DDBJ and Swissprot
1. 11. Protection of GMO's
13. Principle and types of microarray

SECTION-C

III. Answer any ONE of the following Questions in about Four Pages Each (1x15=15)

14. Write a detailed note on different sampling techniques and components of a research proposal.
15. Discuss the patent filing procedures in detail.
