

PHBOT4

Ph.D Course Work Examinations, July-2023

BOTANY

Course-IV: B. Plant Systematics and Phytotherapy Research

Time: 3 Hours

Max. Marks: 70

Instructions: All sections are compulsory

SECTION – A

I. Write a short note on any FIVE of the following **5 X 5 = 25**

1. Soxhlet extraction.
2. TLC.
3. Clinical Pharmacology.
4. HPLC.
5. Chemotaxonomy.
6. Monograph.
7. Bioluminescence.

SECTION – B

II. Answer any THREE of the following **3 X 10 =30**

8. Explain the procedure for genomic DNA isolation.
9. Write a procedure for Bioautography and its application.
10. What is nanobiotechnology, write a note on its role in drug delivery.
11. Write a procedure for protease viability marker assay.
12. Give a brief account of clinical Pharmacology.

SECTION – C

III. Write an essay on any ONE of the following **1 X 15 =15**

13. Discuss in detail methods to validate active compounds having anticancer properties.
14. Elaborate on the construction of the genomic library.
