PHBOT4 Ph.D Course Work Examinations, July-2023

BOTANY

Course-IV: A. Phytochemistry and Molecular Biology

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. Hot extraction process	
2. Restriction digestion	
3. DDBJ	
4. Multiple sequence alignment	
5. Gas chromatography	
6. Clinical Pharmacology	

7. Ligation

SECTION – B

II. Answer any THREE of the following

3 X 10 = 30

- 8. Explain the steps involved in gene cloning
- 9. Describe the isolation of plasmid DNA by alkaline lysis method
- 10. Write a note on Pharmacokinetics
- 11. Explain the principle and application of Soxhlet extraction
- 12. Give a brief account of protein databases

SECTION – C

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

- 13. Explain the principle and applications of Agarose Gel Electrophoresis
- 14. Describe the various types of routes of drug administration