

Code No. : 5734

Sub. Code : LBT1

M.PHIL. DEGREE EXAMINATION, NOVEMBER 2008

First Semester

BOTANY

Paper I

RESEARCH METHODOLOGY

(For those who joined in July 2007 onwards)

Time : Three hours

Maximum : 100 marks

Section - A
Answer ALL questions

(10 x 2 = 20 Marks)

Write short notes on:

1. Dehydration
2. TEM
3. Biosensor
4. Radioactive decay
5. TLC
6. PCR
7. Chi-Square test
8. ANOVA
9. Internet
10. e-book

Section – B

Answer all questions choosing either (a) or (b) (5 x 6 = 30 marks)

11. (a) Define the staining process.

(or)

(b) Define Eleromagnetic radiation

12. (a) Define Biochips and its importance

(or)

(b) Explain the method of labeling of biological molecules.

13. (a) Explain the types of chromatography.

(or)

(b) Define the importance of trans-illuminator.

14. (a) Explain Regression Analysis

(or)

(b) Define sampling technology in statistical studies.

15. (a) Explain the components of research paper.

(or)

(b) Explain the importance of reference collection.

Section – C

Answer all questions choosing either (a) or (b) (5 x 10 = 50 Marks)

16. (a) Write an essay on SEM.

(or)

(b) Briefly write about fluorescent microscopy.

17. (a) Explain the methods involved in the detection and measurement of radioactivity.

(or)

(b) Write an essay on IR

18. (a) Explain the importance of horizontal electrophoresis.

(or)

(b) Explain RHPD analysis in detail.

19. (a) Write an essay on Standard deviation and Correlation.

(or)

(b) Write notes on

(i) Probability normal and binomial distribution

(ii) Measures of Dispersion.

20. (a) Discuss the importance of Internet in updating literature.

(or)

(b) How can you carryout the literature and reference collection and prepare it in thesis format?