

Bankura University

B.Sc. 6th Semester (Honours) Examination, 21

Subject: BOTANY

Course ID- 61317

Course code- SHBOT/604/DSE- 4

Course Title: Research Methodology

F.M-25

Time-1h15min

The figures in the right hand side margin indicate full marks.

UNIT I

1. Answer any five of the following:

1x5 = 5

- (a) What is scientific writing ?
- (b) What is physical fixation?
- (c) Define plagiarism .
- (d) what do you mean by cell maceration?
- (e) What is qualitative research?
- (f) Distinguish between molar and molal solution.
- (g) What is plastic infiltration?
- (h) What is library Research”

UNIT II

2. Answer any two of the following:

2x5 = 10

- a) Write in brief about *Arabidopsis thaliana* which is considered as a model organism in Plant research . What is field Research?
4+1
- b). How many types of photography taken in the field Research? Write the process of preparation of photocopy in dark room.
- c). How many types of stains are used in plant root tip and flower bud chromosome study? Write the staining procedure for somatic chromosome observation.
- d) What is molar solution? How you will prepare a 500ml sucrose solution of 0.5 Molar concentration using distilled water?

2+3= 5

UNIT III

3. Answer any one of the following.

1x10 = 10

- a) What is an abstract of a research article? What should be the important criteria to write a scientific research article? What do you mean by copyright agreement for publication?
2+6+2=10

(b) Describe the process of dehydration techniques using graded solvent soln. How you can prepare ultra thin sections using plant micro techniques experiment?

5+5= 10