



23104658

QP CODE: 23104658

Reg No :

Name :

**B.Sc.DEGREE (CBCS) REGULAR/IMPROVEMENT/REAPPEARANCE
EXAMINATIONS, FEBRUARY 2023**

First Semester

B.Sc Biological Techniques and Specimen Preparation Model III

**Core Course - ZB1CRT02 - COLLECTION AND PRESERVATION OF BIOLOGICAL
SPECIMEN 1 (PLANTS)**

2017 Admission Onwards

D70B8134

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Give any three information recorded in herbarium labels.
2. Describe the character of Liquid preservation used in Museum preservation.
3. How is paraffin used in teaching models?
4. What is auxochrome?
5. Define whole mounts.
6. Name any two adhesives used for permanent slides.
7. What is zygotene ?
8. Name the plant material used to study mitotic stages.
9. Name any two chemicals used to arrest cell division.
10. Name the special stain used in cell division study.
11. What is list quadrate?
12. What is dominance in population study?

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. what is field diary listsome important data recorded in it ?
14. differentiate between cashewnut and coconut by giving their scientific names
15. discuss in detail the preparation and storage of Herbarium sheet
16. whatare the characteriscs of teachers model?
17. define meristems and its different types
18. describe the cortex in cephalandra(dicot) stem structure?
19. describe the cortex in dicot root with a schematic diagram?
20. write the procedure for staining a hand section with 1) safranin 2) iodine
21. what is dominance ? explain its significance?

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Comment on the preparation of dry specimens for display boxes.
23. Explain the different methods of collection and preservation of specimens for cytological and anatomical studies.
24. Describe various stages in mitosis with corresponding nuclear changes.
25. Describe the terms (a) synecology(b)phytosociology(c) synthetic characters of a community(d) habitat(e)quadrate

(2×10=20)

