

DIP-A-1786

DSLT-03

**DIPLOMA DEGREE EXAMINATION —
JULY, 2022.**

(From CY – 2020 Onwards)

**LABORATORY TECHNIQUES IN BIOLOGICAL
SCIENCE - I**

Time : 3 hours

Maximum marks : 70

PART A — (3 × 3 = 9 marks)

Answer any THREE questions in 100 words.

[All questions carry equal marks]

- 1. Write notes on pH meter.**
- 2. Give notes on algal slide preparation.**
- 3. Fungal specimen preparation – provide details.**
- 4. Preservation of seeds – explain.**
- 5. What is clip quadrat?**

PART B — ($3 \times 7 = 21$ marks)

Answer any THREE questions out of five questions in
200 words.

(All questions carry equal marks)

6. Write about Autoclave and its uses.
7. Slide preparation for anatomy – explain.
8. Give points to identify Bryophytes.
9. Narrate flower preservation.
10. Explain Line transect.

PART C — ($4 \times 10 = 40$ marks)

Answer any FOUR questions out of Seven questions in
500 words.

[All questions carry equal marks]

11. Write details about microscope with diagram.
12. Write about bacterial slide preparation.
13. Give an account on plant (Angiosperm) identification.

14. Write about leaves for identification.
 15. Quadrat method – give details.
 16. Laminar air flow chamber – give details.
 17. Write about roots and its modification.
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DSLT-04

**DIPLOMA EXAMINATION —
JULY 2022.**

Science Laboratory Technician

(From CY – 2020 Onwards)

**LABORATORY TECHNIQUES IN BIOLOGICAL
SCIENCE – II**

Time : 3 hours

Maximum marks : 70

PART A — (3 × 3 = 9 marks)

Answer any THREE questions each in 100 words.

All questions carry equal marks.

- 1. Define Animal House.**
- 2. Explain the organization of Reagent Rack in a laboratory.**
- 3. Define Magnifying Power.**
- 4. Define the Basic Units of microscope.**
- 5. Write down the working principle of Laminar Airflow Cabinet.**

PART B — ($3 \times 7 = 21$ marks)

Answer any THREE questions out of five questions in
200 words.

All questions carry equal marks.

6. Explain the Organization of a Laboratory.
7. Brief the various steps involved in Operating Compound Microscope.
8. Explain the working principle of Electron Microscope.
9. Briefly explain the Equipment's used for Distillation.
10. Write a note on the various characteristics of Phylum Platyhelminthes.

PART C — ($4 \times 10 = 40$ marks)

Answer any FOUR questions out of Seven questions in
500 words.

All questions carry equal marks.

11. Discuss in detail about the Ancillaries of Zoology Laboratory.
12. Give a detailed account on the various parts of Microscope with neat diagrams.

13. Illustrate the Fluorescence Microscope. And add a note on its applications.
 14. Explain in detail any Three Equipment used in the Zoology Laboratory.
 15. Distinguish the features of Phyla in Animal Kingdom.
 16. Explain detail about the steps involved in the Preparation of Temporary Slides.
 17. Discuss the different types of Staining Techniques.
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