

**2403000502066003**  
**EXAMINATION FEBRUARY-MARCH 2024**  
**BACHELOR OF SCIENCE (MICROBIOLOGY) (SECOND**  
**SEMESTER) (NEP)**  
**SEC - MAINTENANCE OF LABORATORY**  
**EQUIPMENT-LEVEL 6**

[Time: As Per Schedule]

[Max. Marks: 25]

**Instructions:**

- 1. Fill up strictly the following details on your answer book**
  - a. Name of the Examination : **BACHELOR OF SCIENCE (MICROBIOLOGY) (SECOND SEMESTER) (NEP)**
  - b. Name of the Subject : **SEC - MAINTENANCE OF LABORATORY EQUIPMENT-LEVEL 6**
  - c. Subject Code No : **2403000502066003**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

**Q.1 Give the specific answers (Any five)**

**5**

- a) What are the key components of a pH meter?
- b) Enlist different types of balances.
- c) What factors influence the routine maintenance requirements of a centrifuge?
- d) What is the main purpose of a biological safety cabinet?
- e) What is the standard temperature range that most incubators offer for control?
- f) What are the key maintenance objectives for the plate or sample holder component of a microscope?

**Q.2 Answer the following (Any one)**

**10**

- a) Give detailed account on the key components of a centrifuge.
- b) Give detail account on operational principle and maintenance of pH meter.

**Q.3 Answer any two of the following.**

**10**

- a) What are the key guidelines for using a biological safety cabinet effectively?
- b) Explain operating principle of incubator.
- c) What fundamental principle governs the operation of a microscope?

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