

2403000502027001
EXAMINATION FEBRUARY-MARCH 2024
BACHELOR OF SCIENCE (NEP) (FIRST YEAR)
(SECOND SEMESTER)
MAJOR-2-MEDICAL LABORATORY TECHNOLOGY
PAPER – IV – LEVEL 2
(LABORATORY INSTRUMENTS AND EQUIPMENTS)

[Time: As Per Schedule]

[Max. Marks: 35]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **BACHELOR OF SCIENCE (NEP) (FIRST YEAR) (SECOND SEMESTER)**
 - b. Name of the Subject : **MAJOR-2-MEDICAL LABORATORY TECHNOLOGY PAPER – IV – LEVEL 2 (LABORATORY INSTRUMENTS AND EQUIPMENTS)**
 - c. Subject Code No : **2403000502027001**
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 Answer in one or two sentences: (Any 5)

5

- 1) Define: Numerical aperture.
- 2) Which objective of microscope has the highest magnification?
- 3) Give the use of pH meter.
- 4) It is a the rectangular tube to hold solutions for photometric readings in a colorimeter. It is a _____.
- 5) Enlist the type of centrifuges.
- 6) What should be the ideal temperature, pressure and time for sterilization using an autoclave?

Q.2 Answer the following (Any two): **10**

- 1) Enlist the components of a Bright field microscope. Discuss any 5 components.
- 2) How can we care and maintain a microscope?
- 3) Mention the principle of microscope. Define resolving power and magnification of a microscope.

Q.3 Attempt the following (Any two): **10**

- 1) Describe the electrodes used in pH meter.
- 2) Discuss the working principle and use of colorimeter.
- 3) Describe the components used in colorimeter.

Q.4 Answer the following: (Any Two): **10**

- 1) Write a short note on incubator.
- 2) Write the principle, components and use of Hot air oven.
- 3) Describe the types of rotors in a Centrifuge.
