

**Multi Skilled Health Worker**

**B. Voc. Second Semester End Examination-2024**

**(Regular & Supplementary Paper)**

**PAPER: 202T**

**[Basic instrumentation and application]**

*Full Marks: 40*

*Time: 02Hrs*

*The figures in the right hand margin indicate marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

**Group A**

1. Answer any FIVE questions of the following: 5x2= 10
  - a. What is the magnification capability of a light microscope if objective is of 40 x and eye piece is of 10x?
  - b. What is Autoclave?
  - c. Give example of two chemical disinfection used in hospital system.
  - d. What is the application of Blood cell counter?
  - e. Write the importance of QC in Medical Laboratory.
  - f. Uses of RT-PCR in modern Laboratory
  - g. Write the full form of HPLC
  - h. What is femigation?

(2)

**Group B**

2. Answer any FOUR questions of the following:  $4 \times 5 = 20$
- a. Write a short on 'Laminar flow'.
  - b. Discuss the waste disposal management in a 'Medical Laboratory'. 5
  - c. Write the code of conduct in Medical Lab. Professional.
  - d. Discuss about different personal protective equipment (PPE) used in biomedical Laboratory.
  - e. What is Beer's Lambert's Law?
  - f. What are the role and responsibility of a Laboratory Technologist?

**Group C**

3. Answer any ONE question of the following:  $1 \times 10 = 10$
- a. Write the principle and procedure of competitive ELISA. 3+7
  - b. What are the safety measure rules and regulation of BSL-I, II, III & IV?  $2\frac{1}{2} \times 4$

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