### 2022

# Multi Skilled Health Worker (MSHW) (B.Voc. First Semester End Examination-2022) PAPER-102T

Full Marks: 40

Time: 02 Hrs

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 question of the following:

2x5 = 10

- a. Draw the chemical structure of oleic acid and DHA.
- b. What do you mean by buffer and pH?
- c. What is alpha helix of protein?
- d. Define Mularotation.
- e. What is omega -6 fatty acid?
- f. Write the name of two sulfur containing amino acid.
- g. Define colloids.
- h. Define iso enzyme with two examples.

## **Group-B**

- 2. Answer any four questions of the following: 5x4 = 20
  - a) i) Write the biological importance of surface tension.
    - ii) Distinguish reducing and nonreducing seesars with example.  $2\frac{1}{2} + 2\frac{1}{2}$
  - b) i) Write the function of carbohydrate.
    - ii) Define pyranose-furanose isomerism.

3+2

- c) i) Write the nutritional importance of omega-3 fatty acid.
  - ii) Briefly discuss the adverse health effects of saturated fatty acid.  $2\frac{1}{2} + 2\frac{1}{2}$
- d) i) Define Beer-Lambert law.
  - ii) Write the application of chromatography.

2+3

e) i) Briefly discuss the enzyme inhibition.

5

- f) i) Derive the Michelis-Monten education
  - ii) Briefly discuss the specificity of enzymes.  $2\frac{1}{2} + 2\frac{1}{2}$

#### Group -C

3. Answer any one question of the following:

1x10=10

a) i) Write the name of any two of three branched chain amino acid & briefly discuss their function.

- ii) Distinguish between tertiary and quaternary structure of protein.  $2+3+2\frac{1}{2}+2\frac{1}{2}$
- b) i) Briefly discuss the health benefits of unsaturated fatty acid.
- ii) What are the factors affecting diffusion? Define hypertonic solution and osmotic pressure.

  5+(3+2)