

2021**Multi Skilled Health worker[B.Voc]
(B.VocFirst Semester End Examination-2021)****PAPER-MSHW102T****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*

- 1. Answer any five questions of the following: 5x2= 10**
- a. Compare hetero and homo-polysaccharides. 2
 - b. Distinguish reducing and non-reducing sugars with one examples in each. 2
 - c. Define buffer . 1+1
 - d. Give two examples of each substituted fatty acids and cyclic fatty acids. 1+1
 - e. Distinguish between micelle and liposome. 2
 - f. Write the principle of chromatography. 2
 - g. Define iso enzyme with two examples. 2
 - h. Write the nutritional importance of osmosis 2
- Answer any four questions of the following: 5x4 = 20**

(2)

- a. Write the difference between cofactor and coenzyme with example. 5
- b. Define Beer-Lambert law and write the principles of colorimetry. $2\frac{1}{2} \times 2\frac{1}{2}$
- c. How temperature and pH affect the enzyme activity? $2\frac{1}{2} \times 2\frac{1}{2}$
- d. What are the super secondary motifs? Distinguish between tertiary and quaternary structure of protein. 2+3
- e. Briefly discuss about 'Lock and key' model of enzyme action. 5
- f. What do you mean about stereo-isomer and optical isomer? 5

3. Answer any one question of the following: 10x1 = 10

- a. Draw and write about the alpha helix, triple helix and beta pleated sheet with suitable diagram. 3+3+4
- b. Draw and describe different types of fatty acids with proper nomenclature. Write the importance of K_m and V_{max} . 5+(2+3)
