

2021**Multi Skilled Health worker[B.Voc]
(B.Voc First Semester End Examination-2021)****PAPER-MSHW105T****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**
- i. What is active transport? Give an example. 2
 - ii. What do you mean by homeostasis? 2
 - iii. Define diffusion and osmosis. 1+1
 - iv. Define cardiac output. How is it calculated? 1+1
 - v. Name two hormones secreted from anterior and posterior pituitary gland. 1+1
 - vi. What is hypoxia? Mention its types. 1+1
 - vii. What is peristalsis? Why the interior of the intestines have villi? 1+1
 - viii. Write the importance of gap junctions present in cell membrane. 2

(2)

2. Answer any four questions of the following: 5x4 = 20

- i. Differentiate between SER and RER. Which cell organelle is known as “power house” of the cell and why? 2+1+2
- ii. Draw a well labelled diagram of skin. What is insensible perspiration? 3+2
- iii. Briefly explain the mechanism of breathing what is tidal volume (Tv) 4+1
- iv. Write in brief about the various types of movements of small intestine. 5
- v. Briefly explain the different phases of ventricular systole. 5
- vi. What do you mean by feedback regulation of hormone secretion? Give one example. 3+2

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

- i.a) Explain the Fluid mosaic model of the cell membrane.
- b) Briefly explain the process of blood coagulation.
- c) Write a short note on ‘stem cells’. 4+4+2
- ii. a) What are chemoreceptors? Explain briefly how they help in regulation of respiration.
- b) Write the role of thyroid hormone in metabolism. 1+4+5