2023

B.Voc.

B.Voc. First Semester End Examination - 2023

MSHW

PAPER - 102T

Full Marks : 40   *Time : 2 hours*

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 :   2×5=10**

    (a) Write any two examples of pylysaccharides.

    (b) What do you mean by 'Micelle'?

    (c) What do you mean by visocity?

    (d) Write the name of any two saturated fatty acids.

    (e) Define apo-enzyme.

    (f) What do you mean by acid-base balance?

    (g) Any sucrose known as non-reducing sugar?

    (h) What is Brownian movement?

2. **Answer any four question of the following :**   5×4=20

   (a) Write the biological importance of osmosis. What do you mean by osmolatity?   3+2

   (b) How do you the pH of water (H_2O) is 7.0?   5

   (c) Write the importance of phosphate buffer in the maintenance of intracellular fluid pH.   5

   (d) Write the principle of chromatography. Write the application of photometry in molecular biology.   2+3

   (e) How subtrate and enzyme concentration effect the enzyme activities?   5

   (f) Briefly discuss the factors affecting enzyme activity.

   Define liophoboic and liophylic solution.   3+2

3. **Answer any one question for the following :**   10×1=10

   (a) What do you mean by codogen, codon and anticodon?

   Write the health benefits of omega-6 and omega-3 fatty acids.   (3×2)+4

   (b) Briefly discuss the elengodion and termination steps of protein chain in protein synthesis.

   Write the importance of Km and Vmax of an enzyme.

   (3+3)+4

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