2022

Physiology [HONOURS]

(CBCS)

## (B.Sc. First Semester End Examination-2022) PAPER-C2T

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

4x5 = 20

- a) Define epimer and anomer.
- b) Name two function of phospholipids.
- c) What are Zwitterion?
- d) What is the significance of saponification number?
- e) Explain the mealanism of coboming of amino acid by -----
- f) Define the Phi and Psi angles.
- g) Differentiate between A-DNA, B-DNA and Z-DNA
- h) Why amino acids are called ampholytes?
- 2. Answer any four questions of the following:
- a) Differentiate between alpha helices and  $\beta$  plated sheets.

- b) Explain the factors responsible for the denatusation of proteins.
- c) Discuss the structure of m-RNA with its significance.
- d) What is the significance of Reichert Meissl number? Define cistrans isomerism.
- e) Describe the typical helical structure of DNA with a suitable diagram.
- f) State the physocological importance glycoprotiens and cellulose.  $2\frac{1}{2} + 2\frac{1}{2}$
- g) Give the functional classification of the amino acids.
- 3. Answer any one question:

1x10 = 10

- a) Classify lipoproteins with an example of each. Give the psychological significance cholesterol.
- b) Describe the forces stabilize the different level of structure of proteins. State the clover leaf structure of particular RNA.