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Total No. of Questions : 09

B.Sc.Agriculture (2014 & Onwards) (Sem.-1)

BIOCHEMISTRY

Subject Code : BSAG-103

M.Code : 72210

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Define :

- a. Anomers
- b. Unsaturated fatty acids with an example
- c. Apoenzymes and Holoenzymes
- d. Nucleosides and Nucleotides
- e. Phosphorylation Potential
- f. Peptide bond
- g. Non-reducing sugar with an example
- h. Hormones
- i. Optical activity
- j. Gluconeogenesis

SECTION-B

2. Define Proteins. What are the different levels of structural organizations adopted by proteins?
3. Write a short note on terpenoids and their applications.
4. a) Name and draw the structures of 3 aromatic amino acids.
b) Classify different water soluble vitamins and their importance
5. Write a short note on Oxidative phosphorylation.
6. Discuss Biosynthesis of pyrimidine nucleotides in cell.

SECTION-C

7. Describe TCA cycle in details.
8. Define Ketone bodies and describe the process of fatty acid oxidation in details.
9. Describe Enzyme classification and enzyme immobilization.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.