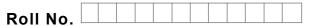
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## B.Sc.Agriculture (2014 & Onwards) (Sem.-1) BIOCHEMISTRY Subject Code : BSAG-103 M.Code: 72210

## Time: 3 Hrs.

Max. Marks: 60

# **INSTRUCTIONS TO CANDIDATES :**

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

#### **SECTION-A**

- 1. **Define :** 
  - a. Anomers
- er.com 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
  - Optical activity i.
  - j. Gluconeogenesis

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### **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 nucleiotides 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.