Roll No. Total No. of Pag

Total No. of Questions: 09

B.Sc.(Agriculture) (2014 & Onwards) (Sem. – 1) BIOCHEMISTRY

M Code: 72210 Subject Code: BSAG-103 Paper ID: [A3292]

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) Globular and fibrous proteins
- b) Soaps and waxes
- c) Steroids
- d) Polysaccharides
- e) Immobilized Enzymes
- f) Anabolism and catabolism
- g) Oxidative phosphorylation
- h) Terpenoids
- i) Essential and nonessential amino acids
- j) Biodiesel

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SECTION B

- 2. Write a note on Biodiesel.
- 3. Discuss energy yield via Glycolysis and Kreb's cycle.
- 4. What are the factors affecting Enzyme activity? Discuss.
- 5. Write a note on Applications of Immobilized Enzymes.
- 6. Discuss a pathway of glucose biosynthesis.

SECTION C

- 7. What are the steps involved in Oxidative Phosphorylation?
- 8. Discuss mechanism of Fatty Acid Oxidation.
- 9. What are Secondary Metabolites? Discuss their industrial applications.

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