

KERALA AGRICULTURAL UNIVERSITY

B.Tech.Food Engg. 2013 Admission

One Time Re-examination-January 2017

Cat. No: Fdqu.1201

Title: Fundamentals of Biochemistry(2+1)

Marks: 50

Time : 2 hours

I. Fill up the blanks:

(10 x 1=10)

1. In starch, the monosaccharides are linked together by ----- bond.
2. ----- colour is produced when amino acid is treated with ninhydrin.
3. ----- is an algal polysaccharide.
4. ----- amino acid is the simplest and smallest.
5. Hydrolysis of triglycerides is mediated by ----- enzyme.
6. An example for saturated fatty acid is -----
7. Transport sugar in plants is -----
8. ----- is considered as the father of biochemistry.
9. Which of the following is considered to be a fibrous protein----- (Hemoglobin; Immunoglobulin; Keratin)
10. Ribulose is a ----- sugar.

II. Write short notes on ANY FIVE:

(5x 2=10)

1. Essential amino acids.
2. Enzyme inhibition.
3. Nutritional quality of milk.
4. Lipases.
5. Co-enzymes and Co-factors.
6. Cellular respiration.
7. Proteolytic enzymes.

III Write answers on ANY FIVE:

(5 x 4=20)

1. Classification of carbohydrates.
2. Biological importance of enzymes.
3. Glycolysis cycle.
4. Mechanism of enzyme action.
5. Properties of amino acids.
6. Triglycerides .
7. Algal polysaccharides.

IV. Write essay on any ONE

(1 x 10=10)

1. Explain the fatty acid metabolism (beta oxidation).
2. Explain in detail the industrial applications of enzymes.
