



KERALA AGRICULTURAL UNIVERSITY
B.Tech.(Food Engg) 2017 Admission
II Semester Final Examination- July 2018

Fdqu.1201

Fundamentals of Biochemistry (2+1)

Marks: 50
Time:2 hours

- I Fill up the blanks (10x1=10)**
- 1 Carbohydrate which does not digest by humans is.....
 - 2 Example for nonstandard amino acid is.....
 - 3 Protein synthesis occurs at
 - 4 The molecule which acts directly on an enzyme to lower its catalytic rate is.....
 - 5 The end product of glycolysis is pyruvate, which enters the citric acid cycle after being converted into
- State True or False**
- 6 Cane sugar is known as sucrose.
 - 7 The secondary structure of protein is maintained by peptide bond.
 - 8 The function of an enzyme is to change the rate of chemical reactions
 - 9 Triacylglycerols are insoluble in water.
 - 10 Oxidation of a molecule involves in gain of proton.
- II Write Short notes on any FIVE of the following (5x2=10)**
- 1 Racemisation
 - 2 Fermentation
 - 3 Syneresis
 - 4 Denaturation
 - 5 Essential amino acids
 - 6 Simple lipids
 - 7 Enzyme unit
- III Answer any FIVE of the following. (5x4=20)**
- 1 Write structure of monosaccharide's and explain about open chain structure.
 - 2 Classify amino acids based on their reaction in solution.
 - 3 Give an overview of deamination process in protein metabolism.
 - 4 Nutritional value of milk proteins.
 - 5 Describe the types of specificity of enzymes.
 - 6 Different types of rancidity.
 - 7 Role of pectin in food industry.
- IV Write an essay on any ONE of the following (1x10=10)**
- 1 Define lipids and classify them with suitable examples.
 - 2 Describe the steps involved in aerobic and anaerobic glycolysis.
