

KERALA AGRICULTURAL UNIVERSITY

B.Tech.Food Engg. 2016 Admission

II Semester Final Examination – August - 2017

Cat. No: Fdqu 1201

Title: Fundamentals of Biochemistry (2+1)

Marks: 50

Time : 2 hours

I. Fill up the blanks /State True or False:

(10 x 1=10)

1. The sugar in RNA is ----- and the sugar in DNA is
2. Plant cell wall is made up of -----
3. ----- is classified as an imino acid.
4. Cofactor of hexokinase is -----
5. ----- is an example of phospholipid.
6. Amylase is a proteolytic enzyme .
7. Glycogen is a structural polysaccharide.
8. Adenosine is an example of nucleoside.
9. Disulphide bond is made up of two cystein residues.
10. Unsaturated fatty acid contain a single bond.

II. Write short notes on ANY FIVE:

(5x 2=10)

1. Phospholipids.
2. Collagen.
3. Pyruvate dehydrogenase complex.
4. Proteolytic enzymes.
5. Acidic and basic amino acids.
6. Chitin and pectin.
7. Co factors .

III Write answers on ANY FIVE:

(5 x 4=20)

1. Enzyme inhibitors.
2. Classification of disaccharides.
3. Differentiate between saturated and unsaturated fatty acids.
4. Explain the Watson and crick model of DNA.
5. Mechanism of enzyme action.
6. Outline TCA cycle.
7. β oxidation of fatty acids.

IV. Write essay on any ONE

(1 x 10=10)

1. Classification of proteins based on their structure.
2. Explain the reactions of Glycolysis and it's energetics.
