

KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food.Engg) 2012 Admission

IInd Semester One time Special Re-Examination-June -2016

Cat. No: Fdqu. 1201

Marks: 80.00

Title: Fundamentals of Biochemistry (2+1)

Time: 3 hours

I. Fill up the blanks:

(10X1=10)

1. ----- is the transport sugar in plants
2. Pepsin is a -----
a)Hormone b) Protein c)alkaloid d)Carbohydrate e)Lectin
3. -----molecule gives a positive iodine test
4. -----is an algal polysaccharide
5. -----is the simplest and smallest amino acid
6. Lactose comes under
a) Protein b) Disaccharide c) Monosaccharide
7. Which of the following is considered to be a fibrous protein?
a) Hemoglobin b) Immunoglobulin c) Keratin
8. Ribulose is a ----- sugar
a) Triose b) Pentose c) Diose d) Hexose
9. ----- is an essential fatty acid
10. -----is known as Father of biochemistry ?

II. Write short answers on any ten

(10 X 3=30)

1. How do amylase function?
2. Which are the non essential amino acids?
3. How carbohydrates are classified?
4. Algal polysaccharides
5. How different metabolisms are interlinked?
6. Enzyme inhibition
7. Principle of Paper chromatography
8. Describe One specific test for a reducing sugar
9. Michaelis menton equation
10. What do you know about ATP
11. Write briefly on cellular respiration.
12. Phospholipases

III. Write short essays on any six

(6 X 5=30)

1. classification of enzymes
2. Basic amino acids
3. Biological importance of carbohydrates
4. Cellulose – as a polysaccharide
5. Co enzymes
6. secondary structure of proteins
7. Immobilised enzymes
8. What is pH ? How it is determined?

IV. Write essay on any one

(10X1=10)

1. Describe TCA cycle
2. Explain beta oxidation of fatty acids