

KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food. Engg) 2014 Admission

IInd Semester Final Examination-June/July -2015

Cat. No: Fdqu.1201

Marks: 50.00

Title: Fundamentals of Biochemistry (2+1)

Time: 2 hours

I Choose the correct answer

(10 x 1=10)

1. _____ is a non essential aminoacid
a) Methionine b) Leucine c) Alanine
2. Hydrolysis of starch is catalysed by
a) Amylase b) Kinase c) starchase
3. Father of Biochemistry
a) Caul Neuberger b) Virchow c) Albert Claude
4. NADP is _____
a) Coenzyme b) DNA part c) lipid moiety
5. To what molecule does carbon dioxide bind to in order to begin the calvin cycle
a) Glucose b) Ribulose 1,5 Po4 c) Ribulose 6 Po4
6. Which of the following is both *oxygenase* and *carboxylase*
a) PGA b) PEP c) Rubisco
7. Globulin comes under
a) Alkaloid b) Protein c) Sterols
8. Ribulose is one _____
a) Enzyme b) Nitrogen base c) Carbohydrate
9. A positive ninhydrin test is given by _____
a) Amino acid b) Sugar c) Phenols
10. Allopurinol is _____
a) Hydrolase b) Inhibitor c) activator

II Write short notes on any FIVE questions

(5 x 2=10)

1. Biological importance of polysaccharides in plants
2. How sugars are classified
3. What are pectins
4. Write briefly on hexoses
5. Write on nutritional quality of proteins
6. Immobilized enzymes
7. Write briefly on phospholipases

III Write short essay on any FIVE questions

(5 x 4=20)

1. Industrial applications of enzymes
2. Acidic amino acids
3. Enzyme inhibitors
4. Importance of glucose
5. Co enzymes
6. Enzymes having role in TCA cycle
7. How sucrose is estimated in a sample

III Write essay on any ONE

(1 x 10=10)

1. Classification and mechanism of action of enzymes
2. Fatty acid metabolism
