

# KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food. Engg) 2014 Admission

II<sup>nd</sup> Semester Final Examination-June/July -2015

Cat. No: Fdqu.1201

Title: Fundamentals of Biochemistry (2+1)

Marks: 50.00

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 Neuberg b) Virchoff 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

(5 x 2=10)

II Write short notes on any FIVE questions

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**

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

(5 x -

**III Write essay on any ONE**

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

(1 x 10-

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