

KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag. 2014 Admission

11th Semester Final Examination- July/August-2015

Cat. No: Ssac.1202

Title: Agricultural Biochemistry (2+1)

Marks: 50

Time: 2 hours

I Fill up the blanks

(10 x 1=10)

1. The major polysaccharide present in cell wall is _____
2. Site of glycolysis is _____
3. Iodine number indicates _____ in oils
4. The place on enzyme where substrate binds is called _____
5. The base present in RNA but not in DNA is _____
6. Primary CO₂ acceptor in C₄ pathway is _____
7. Golden rice is rich in _____
8. Basic unit of Chitin is _____
9. Seat of electron transport chain in the cell is _____
10. An example of a cyclic fatty acid _____

II Write short notes on any FIVE

(5 x 2=10)

1. Isoprenoids
2. Mechanism of degradation of fat
3. Electrophoresis
4. Phospholipids
5. Significance of CAM plants
6. Use of phenols in food and pharmaceuticals
7. Biosynthesis of starch

III Write short notes on any FIVE

(5 x 4=20)

1. Role of lipids in paints and lubricants
2. Important properties of enzymes
3. Sequence of reactions in TCA cycle
4. Fat constants and types of rancidity
5. Glycolysis and alcoholic fermentation
6. Structural levels of protein
7. Classification of carbohydrates with examples

IV Write essay on ANY ONE.

(1 x 10=10)

1. What are the characteristics of enzymes? Write a brief account on the classification of enzymes
2. List out the steps in light reaction of photosynthesis and explain calvin cycle