

KERALA AGRICULTURAL UNIVERSITY

B.Sc. (Hons.) Ag. 2014 Admission

IInd Semester Final Examination- July/August-2015

3
9
Marks: 50
Time: 2 hours

Cat. No: Ssac.1202

Title: Agricultural Biochemistry (2+1)

I Fill up the blanks

(10 x 1=10)

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

2021

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

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