



KERALA AGRICULTURAL UNIVERSITY
B.Sc. (Hons.) Ag. 2018 Admission
I Semester Final Examination-February-2019

Ssac.1101

Fundamentals of Plant Biochemistry (1+1)

Marks: 50
Time: 2 hours

I Fill in the blanks (10x1=10)

- 1 The biomolecule that constitutes to palatability
- 2 An example for H⁺ transferring coenzyme
- 3 The pH at which amino acid exists as zwitterions is called
- 4 The number of ATP formed by one turn of β oxidation proper
- 5 Stability of two strands in DNA is by

Match the following.

- | A | B |
|-------------------------|---------------------|
| 6 Hexokinase | a Lipid |
| 7 Pentose | b Linolenic acid |
| 8 Wax | c Transfer Reaction |
| 9 Ninhydrin | d Xylose |
| 10 Essential Fatty Acid | e Amino acids |

II Write Short notes on any FIVE of the following (5x2=10)

- 1 Mutarotation.
- 2 Essential fatty acids, give example.
- 3 Ampholytes.
- 4 Covalent method of immobilization.
- 5 Energetics of glycolysis.
- 6 Function of phenol.
- 7 Triacyl glycerol.

III Answer any FIVE of the following. (5x4=20)

- 1 β oxidation.
- 2 Oxidative phosphorylation.
- 3 Factors affecting enzyme action.
- 4 Secondary structure of proteins.
- 5 t-RNA structure.
- 6 Functions of Vitamin C.
- 7 Industrial application of enzymes.

IV Write an essay on any ONE of the following (1x10=10)

- 1 Structure, functions and deficiency signs of Vitamin A.
- 2 Classification of proteins.
