

KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Agriculture 2013 Admission
7th Semester One Time Re-Examination-January-2017

Cat. No: Ssac. 1202

Marks: 50.00

Title: Agricultural Biochemistry (2+1)

Time: 2 hours

I State True or False & Fill up the blanks (10x1=10)

1. Fats are rich in saturated fatty acids
2. All the monosaccharides are reducing sugars
3. Ribose is found in nucleic acids
4. Sucrose is a reducing sugar
5. Butyric acid is an unsaturated fatty acid
6. is an example for mono unsaturated fatty acid
7. Triglyceride contains glycerol and
8. Starch and cellulose are polymers of
9. Total numbers of protein amino acids are
10. is optically inactive amino acid

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

1. Essential amino acids
2. Classification of alkaloids
3. DNA and RNA
4. Functions of proteins
5. Simple and complex lipids
6. Plant cell structure and functions
7. Biodegradable plastics

III Short Essays (Any FIVE) (5x4=20)

1. Beta oxidation of fatty acids
2. Classification and functions of carbohydrates
3. ETC and energy production
4. Plant pigments – light and dark reactions
5. Biosynthesis of nucleic acids
6. Glucogenesis
7. Citric acid cycle

IV Write Essay on any ONE (1x10=10)

1. Classification, nomenclature and functions of enzymes
2. Integration of carbohydrate and lipid catabolism in oil seed crops
