

# KERALA AGRICULTURAL UNIVERSITY

B.Sc. (Hons.) Forestry 2014 & 2015 Admissions

1<sup>st</sup> Semester Final Theory Re-Examination-March- 2017

Mat. No: Tpbr 1104

Marks: 50

Title: Plant Biochemistry (1+1)

Time : 2 hours

I. State True or False/Fill in the blanks:

(10 x 1=10)

1. The glycolytic pathway is found in all living beings.
2. Kinase is an enzyme that transfers a Phosphoryl group from ATP to another molecule.
3. At neutral pH basic amino acid have a net zero charge.
4. All amino acid give positive anthrone test.
5. One turn of an alpha helix represents 3.6 amino acid residues.
6. ----- is an example of fibrous protein.
7. Xylose is a ----- sugar. (diiose/triose/pentose)
8. ----- is known as Father of biochemistry?
9. ----- is an essential fatty acid.
10. How many hydrogen bonds are formed between G and C complementary bases in DNA -----

(5x 2=10)

II. Write short notes on ANY FIVE:

1. Michelis mention equation.
2. What do you know about amino acid Glycine?
3. Ninhydrin test.
4. Light reaction.
5. Rubisco.
6. Factors affecting rate of photosynthesis.
7. Transfer RNA.

(5 x 4=20)

III Write answers on ANY FIVE:

1. Classification of enzymes.
2. Sulphur containing amino acids.
3. Biological importance of proteins.
4. Cellulose as a structural carbohydrate.
5. Co factors.
6. Photorespiration.
7. Primary structure of protein

(1 x 10=10)

IV. Write essay on any ONE

1. Structure, function and chemical properties of polysaccharides.
2. Structure and function of DNA.