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3. Write short notes on the following (*any five*):

5×2=10

a) Polypeptide

d) Ribose

c) Acidic amino acids

d) Apoenzyme

e) Buffer

f) Base pairing

g) Allosteric enzyme

h) Catalyst

B.Sc. (Honours) Agriculture Semester-I Examination, 2018

Course No: ACB-111

(Fundamentals of Plant Biochemistry)

Part - II
(Descriptive Type)

Time : 90 Minutes

Full marks : 30

Questions are of value as indicated in the margin.

Answer *any three* questions.

4. Discuss different types of bonds/interactions that play important role in the protein structure. 10
 5. Illustrate the TCA cycle and calculate how much energy is generated in complete oxidation of 10 molecules of Pyruvic acid. 7+3=10
 6. Describe the stereoisomerism in monosaccharides with example. Mention different types of isomerism in carbohydrates. 6+4=10
 7. How the fatty acids are activated and transported into the mitochondria? 10
 8. Answer the following briefly (*any four*): 4×2.5=10
 - a) Michaelis-Menten equation
 - b) Cofactor
 - c) Optical isomerism
 - d) Wax
 - e) Protein helix
 - f) Oxidoreductases
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