

**B.Sc. Semester-IV Examination, 2022-23****FORESTRY [Honours]**

Course ID : 43516      Course Code : SH/FST/FB 2204

**Course Title : Plant Biochemistry**

Time : 2 Hours

Full Marks : 50

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. Write a definition or one sentence answer any **ten** of the followings:       $1 \times 10 = 10$

- a) Mention two derived proteins.
- b) What is calorie value of fat?
- c) Mention two CAM plants.
- d) Allosteric Enzyme.
- e) Write the full form of MUFA.
- f) Mention two C4 plants.
- g) First product of C3 cycle
- h) Non protein amino acid
- i) Full form of MCPA.
- j) Full form of PQ and NADP
- k) Chemical structure of glucose.

- l) Coenzymes
- m) Major function of ABA.
- n) Rancidity
- o) Mention two conjugated proteins.

2. Write short notes / define any **ten** of the followings:

 $2 \times 10 = 20$ 

- a) Difference between CAM and C4 plant
- b) Inhibitor
- c) Hill reaction
- d) Significance of photo phosphorylation
- e) B carbon
- f) What is PEPA?
- g) Significance of Glycolysis
- h) Function of Kranz anatomy
- i) Homo polysaccharides
- j) Nucleoside
- k) Difference between DNA and RNA
- l) Feedback inhibition of enzyme
- m) Reducing and non reducing sugar
- n) Peptide bond
- o) RUBisCo

3. Write down in brief any **four** of the followings:

5×4=20

- a) Physiological role GA.
- b) Light reaction of photosynthesis.
- c) Classification of enzyme on the basis of function.
- d) Write down the B oxidation.
- e) CAM cycle.
- f) Write down the glycolysis pathway.

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