

Total No. of Questions : 4]

SEAT No. :

P829

[Total No. of Pages : 2

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T.Y. B.Sc. (BOTANY) (Semester - IV)
BO - 341 : Plant Physiology And Biochemistry
(2013 Pattern) (Paper - I)

Time :2 Hours]

[Max. Marks :40

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Draw Neat labelled diagrams wherever necessary.*
- 3) *Figures to the right indicate full marks.*

Q1) Answer the following:

[10]

- a) Define photosynthetic unit.
- b) Write any two examples of respiratory substrates?
- c) What is loading of solutes?
- d) What is Xenobiotic stress?
- e) Define polysaccharides.
- f) What is β - oxidation?
- g) Give first stable product of C_4 Pathway.
- h) Enlist any two pathways of secondary Metabolites.
 - i) What are enzyme inhibitors?
 - ii) Write the name of any two plant physiologist.

Q2) Attempt Any Two of the following:

[10]

- a) Write the mechanism of non - cyclic photophosphorylation.
- b) Give properties and functions of carbohydrates.

P.T.O.

- c) Describe the effect of stress on plant growth.

Q3) Write short notes on Any Two of the following. **[10]**

- a) Factors affecting the enzymes activity
- b) Classification and functions of Lipids
- c) CAM Pathway for CO₂ fixation.

Q4) What is Glycolysis ? Explain steps in details with energy output. **[10]**

OR

What are proteins ? Give properties and functions of proteins.

