

Total No. of Questions : 8]

SEAT No. :

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P3237

[5032]-102

M.Sc.

BOTANY - I

**Bo - 1.2 : Plant Physiology and Biochemistry
(2013 Pattern) (Semester - I) (Credit System)**

Time : 3 Hours]

[Max. Marks :50

Instructions to the candidates:

- 1) *Answer any five questions.*
- 2) *All questions carry equal marks.*
- 3) *Draw neat labelled diagram wherever necessary.*

- Q1)** a) Describe Calvin Cycle. [4]
b) Write on Allosteric enzyme. [4]
c) What is biological clock? [2]
- Q2)** a) Give an account of pentose phosphate pathway. [4]
b) Comment on Glycolipids. [4]
c) Explain Redox potential. [2]
- Q3)** a) Discuss the process of 'Glucogenesis'. [4]
b) Comment on 'RUBISCO' activity. [4]
c) What are the pyrimidines? [2]
- Q4)** a) Explain photoinhibition of O₂ and H₂ evolution. [4]
b) Comment on biosynthesis of flavonoids. [4]
c) State 'Nernst and goldmen equation'. [2]

P.T.O.

- Q5)** a) Write general classification of Amino acid. [5]
b) State metabolic changes occurs during fruit ripening. [5]
- Q6)** a) State principle, working and applications of Infrared pyrometer. [5]
b) Write mechanism of root nodulation and nitrogen fixation. [5]
- Q7)** a) Explain ATP driven active transport system. [5]
b) Write general classification of steroids. [5]
- Q8)** a) Discuss the process of lipid biosynthesis and oxidation. [5]
b) Write on biosynthesis of abscisic acid. [5]

