

**Sadhu Vaswani Autonomous College Bairagarh, Bhopal**

**B.Sc.III Year-BOTANY Group-‘A’**

**Paper I -Plant Physiology and Metabolism**

**Model Question Paper--2023-2024**

Time Allowed -Three Hours

Maximum Marks-70

Minimum Marks-25

Note- Attempt all questions

Section-‘A’

Objective type questions

Q.1. Choose the correct one

3X2

I. Nature of Water is

- (a) Basic (b) Acidic  
(c) Alkaline (d) Neutral

II. Rate of Transpiration is measured by

- (a) Potometer (b) Photometer  
(b) Auxanometer (d) Respirometer

III. Word Enzyme was used by

- (a) Mendleef (b) Lamark  
(b) Kuhne (d) Fisher

Section ‘B’ –Short answer Type Question

4X9=36

There are six questions in section ‘B’ Attempt any four questions

Q.2.Explain DPD.

Q.3. Write Difference between C3 and C4 plants

Q.4. Write difference between Aerobic and Anaerobic respiration

Q.5.Describe growth hormone

Q.6.Describe Vernalization

Section-‘C’ -Long Answer Type Questions

There are four questions in section C

,Attempt any two questions

2X14=28

Q.8.Describe mechanism of Opening and closing of stomata.

Q.9.Explain Electron Transport System

Q.10.Describe Nitrogen Fixation.

Q.11.Explain Glycolysis .

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**Paper II –Ecology and Forestry**

**Model Question Paper-2023-2024**

Time Allowed -Three Hours

Maximum Marks-70

Minimum Marks-25

Note- Attempt all questions

Section-‘A’

Objective type questions

Q.1. Choose the correct one

3X2=6

I. Word Ecology was used by

- (a) Hackley (b) Krebs  
(c) Tenseley (d) Reiter

II. Hydrosere starts from

- (a) Water (b) Desert  
(c) Sand (d) Mud

III. Food Chain starts from

- (a) Respiration (b) Photosynthesis  
(c) Transpiration (d) Decomposition

Section ‘B’ –Short answer Type Question

4X9=36

There are six questions in section ‘B’

Attempt any four questions

Q.II Explain importance of Ecology

- Q.III Define Ecades and Ecotype
- Q.IV Explain Water Cycle
- Q.V Explain any one type of Ecosystem
- Q.VI. Explain Forestry.
- Q.VII.Describe Insectivorus Plants.

Section-‘C’ -Long Answer Type Questions

2X14=28

There are four questions in section C,  
Attempt any two questions  
2X14=28

- Q.VIII.Describe Raunkiers Life Forms.
- Q.IX.Explain Soil formation and Soil Profile.
- Q.X.Explain Plant Types on the basis of Temperature.
- Q.XI.Describe Symbiosis with suitable examples..