

**Sadhu Vaswani Autonomous College Bairagarh, Bhopal**

**B.Sc.III Year-BOTANY Group-‘A’**

**Paper I -Plant Physiology and Metabolism**

**Model Question Paper--2024-2025**

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 Osmosis.

Q.3. Describe Calvin cycle

Q.4.Describe Glycolysis

Q.5.Describe the role of Auxin and Gibberline hormone

Q.6.Describe role of Florigin hormone

Section-‘C’ -Long Answer Type Questions

There are four questions in section C

,Attempt any two questions

2X14=28

Q.8.Describe starch sugar hypothesis of stomata.

Q.9.Explain EMP Pathway

Q.10.Describe biogeochemical cycles.

Q.11.Explain Glycolysis .

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**B.Sc.III Year-BOTANY Group-‘A’**

**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 Ecosystem was used by

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

II. Xerosere starts from

- |           |             |
|-----------|-------------|
| (a) Water | (b) Dessert |
| (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 Describe Synecology

Q.III Define Ecades and Ecotype

Q.IV Explain Carbon Cycle

Q.V Explain Forest Ecosystem

Q.VI. Explain Forestry.

Q.VII. Describe Insectivorous 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 Frequency and Abundance in ecology.

Q.IX. Explain Soil formation and Soil Profile.

Q.X. Explain Forest Vegetation of M.P..

Q.XI. Describe Symbiosis with suitable examples..