

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 6465

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Unique Paper Code : 2164001001

Name of the Paper : Plant Diversity and Human Welfare

Name of the Course : **B.Sc. Botany- General Elective**

Semester : II NEP: UGCF-2026

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **FOUR** questions in all including Question Number **1** which is compulsory.
3. **All** parts of a question must be answered together.
4. **All** questions carry equal marks.

Q1 a) Expand the following

1x5=5

- i. SDGs
- ii. IUCN
- iii. CBD
- iv. RDB
- v. WWF

Q1 b) Fill in the blanks **any five**

1x5=5

- i. Earth day is celebrated on
- ii. Name any one biodiversity hotspots in India.....
- iii. Name any one cash crop.....
- iv. Name any one gymnosperm plant
- v. Name one scheme that focuses on plant diversity and human welfare.....
- vi. Name one petro crop.....
- vii. Write the Botanical name of sugarcane.....

Q1c) write one word answer

1x5=5

- i. Which group of plants is often referred to as the "amphibians of the plant kingdom"?
- ii. What term is used to describe plants that possess true vascular tissues?
- iii. Which specific tissue is responsible for conducting water and minerals from the roots upwards?
- iv. Which subgroup of angiosperms typically has seeds with two cotyledons and leaves with net-like venation?
- v. In which city and country is the headquarters of IUCN located?

P.T.O.

Q2. Explain the following with examples

5x3=15

- a) In-Situ and Ex-Situ Conservation
- b) Biodiversity Hotspots
- c) Sustainable development goals

Q3. Attempt **any two** questions

7.5x2=15

- a. Discuss the ecological importance of algae.
- b. Discuss any two national or international programs/ schemes focussing on plant biodiversity and human welfare.
- c. Why conservation of biodiversity is important for us.

Q4 Attempt the following questions.

7.5x2=15

- a) Discuss the major threats to the biodiversity
- b) Role of forest, woodland and vegetation in ecological, aesthetic and overall well-being.

Q.5 Attempt **any two**

7.5x2=15

- a) Establish a positive relationship between plant diversity and human welfare
- b) Describe how green spaces and vegetation influence human health, aesthetics, and mental well-being.
- c) Suggest any five strategies for sustainable development.