

(iv) Essential oils, along with the botanical name, family, part used and uses with reference to sandalwood

(v) Key measures to protect the forests

4. Answer any **two** of the following : (7.5×2=15)

(i) Why is biodiversity important for sustainable development?

(ii) Explain how sugarcane serves as a petro-crop, and its significance in renewable energy production in India.

(iii) Discuss the economic and ecological importance of Algae and Bryophytes.

5. Answer any **two** of the following : (7.5×2=15)

(i) Discuss the roles, importance and key provisions of CBD.

(ii) Compare the traditional methods and innovative approaches of waste minimization during product formation.

(iii) Discuss the economic significance of cash crops.

(iv) Write a brief account of various types of forests in India, and their ecological and aesthetic utilization.

(500)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 3503

I

Unique Paper Code : 2164001001

Name of the Paper : Plant Diversity and Human Welfare

Name of the Course : **B.Sc. (H) Botany (GE-1)**

Semester : I

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 any **four** questions in all.
3. Question No. 1 is compulsory.
4. **All** parts of a question must be answered together.
5. **All** questions carry equal marks.

P.T.O.

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1. (a) Define the following terms (**any five**): (1×5=5)

- (i) Extinct species
- (ii) Biodiversity
- (iii) Species richness
- (iv) Vegetation stands
- (v) Cash crops
- (vi) Agrobiodiversity

(b) Fill in the blanks (**any five**): (1×5=5)

- (i) Botanical name of Sarpagandha is
- (ii) International Day of Biodiversity (IDB) is celebrated on
- (iii) Sandalwood is obtained from
- (iv) Most of the commercial sugar is obtained from the
- (v) Plant known as king of spices is
- (vi) Family of *Ocimum sanctum* is

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(c) Match the following : (1×5=5)

- | | |
|------------------|---------------------------|
| (i) Cotton | (a) Spice |
| (ii) Ashwagandha | (b) Petro Crop |
| (iii) Corn | (c) <i>Cocos nucifera</i> |
| (iv) Saffron | (d) Ginning |
| (v) Coconut | (e) Medicine |

2. Write the botanical name, family, useful part and economic uses of any three of the following :

(5×3=15)

- (i) Tobacco
- (ii) Saffron
- (iii) Basmati rice
- (iv) Sugarcane
- (v) Pigeon pea

3. Write short notes on any **three** : (5×3=15)

- (i) Protection of Plant Varieties and Farmer's Right Authority (PPVFRA)
- (ii) Sustainable Development Goals (SDGs)
- (iii) Spices production in India

P.T.O.