

Sr. No. of Question Paper :

Unique Paper Code : 2164001001

Name of the Paper : Plant Diversity and Human Welfare

Name of Course : **Generic Elective – Botany**

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

Q.1 (a) Define (any five):

(5 X 1 = 5)

- i. Endangered species
- ii. IUCN
- iii. Cash crops
- iv. Sacred plants
- v. Tribal Rights Bill
- vi. CBD

(b) Fill in the blanks:

(5 X 1 = 5)

- i. is the botanical name of Basmati rice.
- ii. Cotton is ayielding plant.
- iii. World Biodiversity Day is celebrated onevery year.
- iv. Most of the commercial sugar is obtained from the.....plant.
- v. Naked seeds are found in

(c) Match the following:

(5 X 1 = 5)

Column I

- i. Global warming
- ii. Petro crop
- iii. Legumes
- iv. Agrobiodiversity
- v. Cereals

Column II

- a. Protein
- b. Crop diversity
- c. Poaceae
- d. Greenhouse gases
- e. *Jatropha*

Q.2 Write the botanical name, family, part used and economic importance of: (5 X 3 = 15)

- a) Sandalwood
- b) Saffron
- c) Ashwagandha
- d) Tobacco
- e) Corn

Q.3 Write short notes on any **three**:

(3 X 5 =15)

- a) Waste minimization during product formation
- b) Commercial value of plant wealth
- c) Role of forests in well-being
- d) Hot-spots of biodiversity in India

Q.4 Answer any **three** of the following:

(3 X 5 =15)

- a) Briefly discuss India's role in sustainable utilization and achieving Sustainable Development Goals.
- b) Discuss ecological and economic importance of Bryophytes and Algae.
- c) Discuss the traditional importance of crops as food giving examples of any two pulses and oil crops each.
- d) Differentiate between *in-situ* conservation and *ex-situ* conservation by giving examples.

Q.5 (a) What are the values of biodiversity? Discuss their salient features.

(7)

- (b) Discuss the crop diversity in various phytogeographic regions of India and their traditional importance as spices and beverages giving two examples from each. (8)