

GOVERNMENT DEGREE COLLEGE, NANDIKOTKUR

DEPARTMENT OF BOTANY

Plant Resources and Utilization

Unit 1: Food Plants

Short Answer Questions:

1. Define centers of diversity of plants and explain their significance.
2. Discuss the process and importance of crop domestication.
3. Explain the concept of sustainable development in relation to agriculture.
4. Describe the cultivation and uses of rice and wheat.
5. What are minor millets? Discuss their importance in human nutrition.

Long Answer Questions:

1. Write an essay on the origin and diversity of crop plants.
2. Explain the production and economic significance of sugarcane.
3. Discuss the role of cereals and millets in ensuring food security.
4. Compare and contrast the characteristics and uses of red gram and black gram.
5. Explain the significance of introducing crop plants in sustainable agriculture practices.

Unit 2: Other Economic Plant Products

Short Answer Questions:

1. Give an overview of oilseed crops and their significance.
2. Describe the economic importance of vegetable oils.
3. Write a brief note on rubber and latex production.
4. List and explain the uses of gums, resins, and tannins.
5. Name any two major fiber crops of India and discuss their uses.

Long Answer Questions:

1. Discuss the plant sources and economic importance of alkaloids and dyes.
2. Write an essay on the role of fruit and vegetable-yielding plants in human nutrition.

3. Explain the processes involved in textile production from plant fibers.
4. Analyze the significance of rubber plantations for industrial applications.
5. Evaluate the economic potential of gums and resins in the global market.

Unit 3: Commercial Plant Products

Short Answer Questions:

1. Define spices and condiments, and give examples of their economic importance.
2. Write a brief note on the plant sources of beverages.
3. What are fumitories and masticatories? Provide examples.
4. Explain the importance of narcotic plants in traditional and industrial uses.
5. Discuss the utility of flowering plants and orchids in commercial landscaping.

Long Answer Questions:

1. Write an essay on the economic potential of spices in India.
2. Discuss the plant sources and uses of flavoring products.
3. Analyze the role of ornamentals and orchids in the horticulture industry.
4. Explain the significance of beverages like tea and coffee in global trade.
5. Discuss the commercial uses of masticatories and their cultural significance.

Unit 4: Medicinal and Aromatic Plant Products

Short Answer Questions:

1. Name any three medicinal plants of India and their traditional uses.
2. What are the active compounds in medicinal plants? Mention their pharmacological effects.
3. Explain the uses of essential oils in perfumery and cosmetics.
4. Define phytochemicals and discuss their health benefits.
5. What are aromatic plants? Give examples of their uses in cosmetics.

Long Answer Questions:

1. Discuss the traditional and modern uses of medicinal plants in India.
2. Explain the role of essential oils in the pharmaceutical and cosmetic industries.
3. Write an essay on the pharmacological significance of active compounds in medicinal plants.
4. Analyze the potential health benefits of phytochemicals with examples.
5. Evaluate the importance of aromatic plants in the global economy.

Unit 5: Timber Products and Energy Crops**Short Answer Questions:**

1. Name any three timber-yielding plants of India and their uses.
2. Describe the role of wood as a construction material.
3. What are energy crops? Provide examples of their uses.
4. Discuss the significance of bamboo, Eucalyptus, and Casuarina in the paper industry.
5. Write a brief note on biofuels and their advantages.

Long Answer Questions:

1. Discuss the uses of wood products in paper and fuel industries.
2. Explain the importance of timber products in value-added industries.
3. Write an essay on the role of energy crops in sustainable development.
4. Analyze the economic importance of bamboos in construction and paper production.
5. Evaluate the potential of biofuels and bioplastics as alternatives to conventional fuels.