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3 (Sem-3/CBCS) BOT HC 2

2024

BOTANY

(Honours Core)

Paper : BOT-HC-3026

(Economic Botany)

Full Marks : 60

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. Answer the following : $1 \times 7 = 7$

(a) Coir is extracted from _____.

(Fill in the blank)

(b) What type of soil is suitable for cotton cultivation ?

(c) What is the scientific name of rice plant ?

Contd.

(d) Choose the correct answer :

Digitalis purpurea belongs to the family

- (i) Acanthaceae
- (ii) Solanaceae
- (iii) Ranunculaceae
- (iv) Verbenaceae

(e) What is retting ?

(f) Which part of the plant is used as clove ?

(g) What is the botanical name of Saffron ?

2. Answer the following question very briefly :
 $2 \times 4 = 8$

- (a) Mention the importance of spices.
- (b) How is 'opium' obtained from its source ?
- (c) Give the morphology and uses of chick-pea.
- (d) Mention the health hazards of tobacco.

3. Answer **any three** of the following :
 $5 \times 3 = 15$

- (a) Describe the process of milling of rice.

(b) Write the botanical name of coffee plant. Give a brief account on processing of coffee.

(c) From which part of the plant cotton fibres are obtained ? Write the uses of cotton fibres.

(d) Describe the role of legumes in the eco-system.

(e) Write a note on habit-forming drugs.

4. Answer the following questions : (**any three**)
 $10 \times 3 = 30$

(a) What are the different kinds of commercially prepared tea ? What is the scientific name of tea plant ? Mention the ecological factors required for tea cultivation.
 $3 + 2 + 5 = 10$

(b) Write short notes on : $5 \times 2 = 10$

(i) Plant introduction

(ii) Loss of genetic diversity

(c) Write an account on the drug-yielding plants known to you.

- (d) Write the scientific name of sugarcane and mention the family to which it belongs. Describe briefly the morphology of sugarcane. Describe various steps involved in the extraction and manufacture of sugar.

2+3+5=10

- (e) What are the centres of origin of crop plants ? Describe the centres of origin of cultivated plants given by Vavilov. Add a note on importance of germplasm diversity.

2+6+2=10

- (f) Give an account on essential oils mentioning their sources, extraction and uses.