

Dept. /
Total number of printed pages-4

3 (Sem-3/CBCS) BOT HC 2

2025

BOTANY

(Honours)

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 questions/Choose the correct one/Fill in the blanks : $1 \times 7 = 7$

- (i) Coir is extracted from _____.
- (ii) What types of soil is suitable for cotton cultivation ?
- (iii) Scientific name of potato is :
 - (a) *Solanum indicum*
 - (b) *Solanum melongena*

- (c) *Solanum tuberosum*
 (d) *Solanum torvum*
- (iv) Name the types of fruit found in Rice plant.
- (v) What is the scientific name of 'Soybean'?
- (vi) Which part of the plant *Crocus sativus* is used as "saffron"?
- (vii) *Digitalis purpurea* belongs to the family :
- (a) Acanthaceae
 (b) Solanaceae
 (c) Degeneriaceae
 (d) Scrophulariaceae
2. Answer the following questions : $2 \times 4 = 8$
- (a) Mention the importance of legumes.
- (b) Mention the part used and uses of the following economically important plants :
- (i) Potato
 (ii) Clove
- (c) How 'Opium' is obtained from its source ?

- (d) Write the botanical name of 'Black pepper' along with the name of the family. Mention the name of the alkaloid obtained from 'Black pepper'.
3. Answer the following : (**any three**) $5 \times 3 = 15$
- (a) Mention the family name, part used and use of : $2\frac{1}{2} \times 2 = 5$
- (i) Cinchona
 (ii) Tobacco
- (b) Describe briefly the process of milling of Rice.
- (c) From which part of the plant cotton fibres are obtained? Write briefly about the method of preparation of cotton threads. $1 + 4 = 5$
- (d) What are the by-products of sugarcane industry? Mention their uses. $3 + 2 = 5$
- (e) How many centres of origin of species was proposed by N. I. Vavilov and what are these? What was Vavilov's postulation? $1 + 2 + 2 = 5$
4. Answer the following questions :
- (a) Mention *two* species of 'Jute'. From which part of the plant the jute fibre is extracted? Describe briefly the method of extraction of jute fibre. Mention uses of jute. $2 + 1 + 5 + 2 = 10$

Or

Write an account on two timber yielding plants known to you. 10

- (b) Define 'essential oil'. Give example of *two* aromatic plants mentioning the part from which oil is obtained. Mention briefly the use of essential oil. How does essential oil differ from fatty oil ?
2+4+2+2=10

Or

Write short notes on : 5×2=10

- (i) Plant Extroduction
(ii) Loss a genetic diversity
- (c) Write the botanical name with family of sugarcane. Mention briefly the morphology of sugarcane. Describe various steps involved in the extraction and manufacture of sugar.
2+2+6=10

Or

Name the different kinds of tea prepared commercially. Mention the ecological factors required for tea cultivation. Describe various steps of tea preparation. 2+2+6=10
