

Total number of printed pages-4

3 (Sem-3/CBCS) BOT HC 2

2021

(Held in 2022)

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 : 1×7=7
- (i) Write the scientific name of the plant from which the 'saffron of commerce' is obtained.
 - (ii) Which part of the jute plant is used as fibre ?
 - (iii) What do you understand by domestication ?

Contd.

- (iv) Clove is obtained from
- (a) flower buds
 - (b) inflorescence
 - (c) leaf
 - (d) stem apex
- (v) Name a drug yielding plant where drug is obtained from bark.
- (vi) What type of soil is suitable for cotton cultivation ?
- (vii) 'Fennel' belongs to the family
- (a) Apiaceae
 - (b) Asteraceae
 - (c) Apocynaceae
 - (d) Acanthaceae

2. Answer the following questions very briefly : 2×4=8

- (i) Write the scientific name of cotton plant. From which part of the plant the cotton fibers are obtained ?

- (ii) How does the evolution of new crop/ varieties take place ?
- (iii) Mention the importance of legumes to the ecosystem.
- (iv) Write the health hazards caused by tobacco.

3. Answer the following questions briefly : 5×3=15
(any three)

- (i) Describe the morphology and processing of sugarcane.
- (ii) Importance of germplasm diversity.
- (iii) Describe briefly the process of milling of rice.
- (iv) Write briefly on the origin and uses of chickpea and pigeon pea.
- (v) Mention the importance of centres of origin with reference to Vavilov's work.

4. Answer **any three** of the following : 10×3=30

- (a) Write an essay on the timber yielding plants studied by you. 10

- (b) Write the names of two varieties of coffee grown in India. What are the different ways by which Indian coffee is processed? Describe the method of processing of Arabica coffee.

3+2+5=10

- (c) What is 'Orange Fannings'? Give an account of the steps involved in the processing of tea.

2+8=10

- (d) Write a note on the classification of fatty oils. Describe the methods of extraction of fatty oils. Mention the name and uses of two vegetable oil yielding plants.

4+4+2=10

- (e) Write the botanical name of rubber plant. Mention the family to which it belongs. What is tapping? Describe the processing of rubber. Mention various uses of rubber.

1+1+3+3+2=10

- (f) What are the habit-forming drugs? Write briefly about some habit-forming drugs mentioning the scientific names of the plants from which the drugs are obtained.

2+8=10