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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 : $1 \times 7 = 7$

(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