

2021

BOTANY — HONOURS

Paper : CC-9

Full Marks : 50

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

1. Answer **any five** questions from the following: 2×5

- (a) What is essential oil? Why it is called ethereal oil?
- (b) What is 'Dammar gum'? Mention its uses.
- (c) What do you mean by the term 'beverages'? Give an example.
- (d) Name the alkaloids found in *Cinchona* species. From which plant parts do we obtain these alkaloids?
- (e) Distinguish between New World cotton and Old World cotton.
- (f) What is 'Triticale'?
- (g) Write the scientific names of two indigenous timber yielding plants.
- (h) Define the term acclimatization.

2. Answer **any two** questions from the following:

- (a) Write notes on primary and secondary introduction of crops. 2½+2½
- (b) Comment on the origin of rice plants. 5
- (c) Discuss in brief the products and by-products of sugarcane. 5
- (d) Give a brief account on the retting and extraction of jute. Name two species of cotton cultivated in India. 3+2

3. Answer **any three** questions from the following:

- (a) Describe the steps involved in the processing of tea. Mention the names of different tea-types based on processing methods. Write the scientific name of tea plant. 6+3+1
- (b) Distinguish between essential oil and fatty oil. Write the process of steam distillation for the extraction of essential oil. Why soyabean oil is considered as a healthy oil? Write the scientific names of coconut and mustard plants. 2+4+2+2

Please Turn Over

- (c) Mention the parts used and uses of the following spice plants: 2½×4
- (i) Cumin
 - (ii) Bay Leaves
 - (iii) Saffron
 - (iv) Jayitri.
- (d) Give the botanical name, family and a brief account of method for propagation of potato. 2+1+7
- (e) Discuss in brief the Vavilovian Centre of origin of cultivated crops with examples of specific crops of each region. Comment on the different reasons for the loss of genetic diversity. 7+3
-