

2023

**BOTANY — HONOURS**

**Paper : CC-9**

**(Economic Botany)**

**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* of the following :

- Mention the importance of germplasm diversity.
- Why the leguminous plants are ecologically important?
- Write the scientific names of gram and mung bean.
- Name the resin produced by the tree members of Dipterocarpaceae family. Mention its use.
- Define beverage. Give an example.
- Why soybean oil is considered as healthy oil?
- What is the difference between New World Cotton and Old World Cotton?
- What do you mean by "Centre of Origin" of a cultivated crop?

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2. Answer *any two* of the following :

- Mention the botanical name, active constituent and health hazard caused by *Cannabis*. What is the characteristic of a 'habit forming drug'? (1+1+2)+1
- Briefly describe the method of separation for jute fibre. Mention the anatomical nature of jute fibre. 4+1
- Describe in brief the steam distillation process for the extraction of essential oil. 5
- Write the scientific names, families and used parts of the following plants : (1+½+1)×2  
Coconut, Teak.

3. Answer *any three* of the following :

- Comment on the origin of rice plants. Write down its morphological characters with labelled sketch. Compare essential oils with fatty oils. 4+4+2
- Describe the steps involved in the processing of sugarcane. Name the products and by products of sugarcane industry. Write down the therapeutic uses of *Cinchona* and *Digitalis*. Mention the health hazards caused by Tobacco. 4+2+2+2

**Please Turn Over**

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(2)

(c) Write down the scientific names, parts used and uses of the following plants : (1+½+1)×4

(i) Ginger

(ii) Coriander

(iii) Clove

(iv) Saffron.

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(d) Give the outline of the method of processing for wheat. Briefly describe the method involved in the processing of tea. Write down the name of the tea-types according to processing methods.

2+5+3

(e) Write the botanical name, family, used part and brief note on the method of propagation for potato.

1+1+1+7