

2025

BOTANY — HONOURS

Paper : DSCC-3

(Economic Botany)

Full Marks : 75

*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 six* of the following :

- (a) What is baggase? Mention its use. 2
- (b) Distinguish between essential oil and fixed oil. 2
- (c) Mention the fruit types of Tamarind and Banana. 2
- (d) Write the scientific names of any two millets. 2
- (e) Write the scientific name of Palmyra Palm and Sunflower. 2
- (f) What is introgression of wheat? 2
- (g) Name any two economically important plants of Indian origin and any two economically important crops that was introduced. $\frac{1}{2} \times 4$
- (h) What is seasoning of timber? Why is it necessary? 2
- (i) Name any two economically important plants from Apiaceae mentioned in your syllabus. 2

2. Answer *any three* of the following :

- (a) Write a brief note on origin of rice plant. 5
- (b) Write the scientific names of Sal, Teak, Mahagony and Sissoo. What is standing timber? 4+1
- (c) Write the scientific name and family of Poppy. How it is harvested/collected from the field? Mention any two drugs obtained from it. $1\frac{1}{2} + 1\frac{1}{2} + 2$
- (d) Write the scientific names and parts used of Ajwain and Fenugreek and mention the scientific names of small and big Cardamom. $1\frac{1}{2} + 1\frac{1}{2} + 1 + 1$
- (e) Write the scientific names of any five 'other sources' of natural rubber mentioned in your syllabus. 5

3. Answer *any four* of the following :

- (a) Write a brief note on importance of legume to man and environment. Write a brief note on cultivation of Mung bean or Soyabean. 6+6

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- (b) Classify fibres on the basis of origin. Distinguish between old world cotton and new world cotton. Write brief notes on extraction process of flax and cotton. 2+2+8
- (c) Write a brief note on the different steps involved in processing of coffee. Mention its active constituents and uses. Mention the differences between the Assam tea and Darjeeling tea. 7+2+3
- (d) Write a brief note on cultivation of Rice. State any two uses of rice other than 'cereal'. What is 'auricle'; 'ligule', 'awn' and 'tillering'? 6+2+4
- (e) Give a comparative account on the health implications of Mustard; Groundnut, Sunflower and Coconut oil. What is 'iodine number'? (2½×4)+2
- (f) (i) Write the scientific name, family and edible parts of **any three** of the following :
- (A) Pointed gourd (1+½+½)×3
 - (B) Lady's finger
 - (C) Carrot
 - (D) Drumstick.
- (ii) Write the scientific name, family and 'fruit type' of **any three** of the following :
- (A) Jackfruit (1+½+½)×3
 - (B) Pomegranate
 - (C) Litchi
 - (D) Custard apple.
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