

2023

Time - 3 hours

Full Marks - 60

*Answer all groups as per instructions.
Figures in the right hand margin indicate marks.
Draw labelled diagrams wherever necessary.*

GROUP – A

1. Fill in the blanks. (all)

[1 × 8

- (a) The centre of origin of wheat plant is _____.
- (b) The scientific name of 'Pigeon Pea' is _____.
- (c) The most important alkaloid present in *Rauwolfia* is _____.
- (d) *Digitalis purpurea* belongs to family _____.
- (e) Essential oils are known as _____.
- (f) Teak belongs to family _____.
- (g) Saffron obtained from _____.
- (h) Total number of centre of origin of crop plants given by Vavilov is _____.

[2]

GROUP – B

2. Answer any eight of the following questions within two to three sentences each. [1½ × 8]

- (a) What is importance of germplasm diversity ?
- (b) What plant materials are used in the manufacture of sugar ?
- (c) Give the family and botanical name of cocoa plant.
- (d) Give the botanical names of three drug-yielding plants.
- (e) What are the important functions of essential oils ?
- (f) Name botanical name, family and source of coir.
- (g) What are semi-drying oils with examples ?
- (h) Write the scientific name, family and uses of *Belladonna* ?
- (i) How does milling affect quality of Rice ?
- (j) What are the main objectives of plant introduction ?

GROUP – C

3. Write notes on any eight of the following within 75 words each. [2 × 8]

- (a) Crop domestication
- (b) Importance of legumes to ecosystem

[3]

- (c) By-products of sugar industry
- (d) Economic importance of black pepper
- (e) Health hazards of tobacco
- (f) Uses of linseed oil
- (g) Botanical name and uses of *Brassica*
- (h) Tapping process of natural rubber
- (i) Uses of Jute
- (j) Concept of centres of origin

GROUP – D

Answer **all** questions within 500 words each.

4. Describe the various centres of origin of cultivated plant by Vavilov. [6]

OR

Describe the morphology, propagation and uses of potato.

5. Give an account of morphology, processing and uses of tea. [6]

OR

Describe the therapeutic and habit forming drugs with special reference to Cannabis and Papaver.

P.T.O.

[4]

6. Describe briefly about the method of extraction and function of essential oil. [6]

OR

Describe briefly the extraction, uses and health implications of groundnut.

7. Describe the morphology, tapping process and uses of para rubber. [6]

OR

Give an account of morphology, extraction and uses of Jute.