

6. (a) Explain Vavilov's work on origin of cultivated plants. List all the centres of origin with examples. (2+8=10)
- (b) Which state in India is the chief producer for the following (*any five*): (5×1=5)
- Black pepper
 - Cotton
 - Coconut
 - Groundnut
 - Rubber
 - Wheat
7. (a) What is retting? Explain the process of retting taking jute as an example. Write economic importance of jute. (1+5+2=8)
- (b) Match the following : (7×1=7)
- | | |
|-------------------------|-------------------------------|
| (i) Golden tip | 1. Mustard |
| (ii) Solanin | 2. <i>Linum usitatissimum</i> |
| (iii) Multipurpose crop | 3. Potato |
| (iv) Corymbose raceme | 4. Tea |
| (v) Flax | 5. <i>Glycine max</i> |
| (vi) Wonderbean | 6. Clove |
| (vii) Eugenol | 7. Coconut |

(1500)

[This question paper contains 4 printed pages.]



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Your Roll No.

Sr. No. of Question Paper : 1400

Unique Paper Code : 32161302

Name of the Paper : Economic Botany(LOCF)

Name of the Course : B.Sc. (H) Botany

Semester : III

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

- Write your Roll No. on the top immediately on receipt of this question paper.
- Attempt any **five** questions.
- All** questions carry equal marks.
- Question no. 1 is compulsory.

- (a) Give the botanical names of **any five** of the following : (5×1=5)

- The source of "Shahi Zafran"
- Leaf fibres used in making tea bags
- A major plant source used as a substitute of coffee
- Leaf used in making bidi
- Plant roots used for making screens in coolers
- Source of broth used for microbial cultures

P.T.O.

(b) Define **any five** of the following terms :

- (i) Retting
- (ii) Ratooning
- (iii) Iodine number
- (iv) Lancing
- (v) Caryopsis
- (vi) Pharmacology

(5×1=5)

(c) Expand and write the place where the institutes are located (**any five**) :

- (i) ICRISAT
- (ii) RRIM
- (iii) IARI
- (iv) SBI
- (v) CIMAP
- (vi) IRRI

(5×1=5)

2. Differentiate between the following (**any three**) :

- (i) Essential oils and Fatty Oils
- (ii) Black Tea and Green Tea
- (iii) Flue curing and Sun curing
- (iv) White Jute and Tossa Jute
- (v) Indica and Japonica Rice
- (vi) Millets and Cereals

(3×5=15)

3. Draw labelled diagrams of **any three** of the following. Write botanical name and family also. (3×5=15)

- (i) L.S. cotton seed
- (ii) L.S. Clove flower bud
- (iii) T.S. Hesperidium
- (iv) L.S. wheat grain

4. Write short notes on **any three** of the following : (3×5=15)

- (i) Products and By-products of sugarcane industry
- (ii) Extraction methods of fatty oils
- (iii) Importance of legumes
- (iv) Cannabis as multipurpose crop
- (v) Green Revolution

5. (a) What is tapping? Explain different types of tapping and processing of rubber. (1+6+2=9)

(b) Write botanical name, family, part used and active constituents of **any three** of the following. (3×2=6)

- (i) Poppy
- (ii) Saffron
- (iii) Fever bark tree
- (iv) Tea