

[This question paper contains 5 printed pages.]

9/12/19 M

Your Roll No.....

Sr. No. of Question Paper : 7384 J

Unique Paper Code : 32161302

Name of the Paper : Economic Botany

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

Semester : III

Duration : 3 Hours

Maximum Marks : 75

**Instructions for Candidates**

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **Five** questions in all including question No. 1 which is compulsory.
3. All parts of a question must be answered together.
4. All questions carry equal marks.
5. Draw labelled diagrams and write the botanical name wherever necessary.

1. (a) Give botanical name and family of the following:  
(5×1)

P.T.O.

- (i) Plant that causes Lathyrism
- (ii) Plant roots of which are used for making screen in coolers
- (iii) Plant that yields digitalin
- (iv) Plant leaves of which are used for wrapping tobacco in bidi
- (v) Plant that is known as "King of Spices"

(b) Match the following: (5×1)

- |                           |               |
|---------------------------|---------------|
| (i) Papaver somniferum    | (a) Ginning   |
| (ii) Corchorus capsularis | (b) Ratooning |
| (iii) Linum usitatissimum | (c) Lancing   |
| (iv) Gossypium hirsutum   | (d) Retting   |
| (v) Saccharum officinarum | (e) FLax      |

(c) Expand **any five** of the following: (5×1)

- (i) IPR
- (ii) CRRI

- (iii) CTRI
- (iv) NBPGR
- (v) IARI
- (vi) CPRI

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

- (i) L.S. of clove
- (ii) Portion of sugar cane stem
- (iii) T.S. of schizocarpic fruit
- (iv) L.S. cotton seed

3. Differentiate between **any five** of the following: (5×3=15)

- (i) Fatty oils and essential oils
- (ii) Porous wood and non-porous wood
- (iii) C. capsularis and C. olitorius



(iv) Flue curing and sun curing

(v) Black tea and Green tea

(vi) Millets and Cereals

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

(i) Vavilov's concept of centres of origin of cultivated plants

(ii) Bi-products of sugarcane industry

(iii) Tapping of latex from para rubber tree

(iv) Tobacco and its Health hazards

(v) Extraction methods of essential oils

(vi) TPS technology

5. Write botanical name, family, part used and economic importance of any five the following: (5×3=15)

(i) Saffron

(ii) Linseed

(iii) Teak

(iv) Cotton

(v) Mustard

(vi) Wheat

(vii) Groundnut

6. (a) Coconut is a multi- purpose plant. Comment on the statement. (5)

(b) Write note on importance of legumes to man and ecosystem. (5)

(c) Give a detailed account of the morphology and economic importance of wheat. (5)

7. (a) What is retting? Explain this process in jute. (5)

(b) Write botanical name, family, part used and chemical constituents of any two drug yielding plants you have studied (5)

(c) Comment on the advantages and disadvantages of Green Revolution. (5)