

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 5963

**J**

Unique Paper Code : 2162581201

Name of the Paper : Economic Botany

Name of the Course : **B.Sc. Applied Life Science with Agrochemicals  
and Pest Management**

Semester : II

Duration : 2 Hours

Maximum Marks : 60

**Instructions for Candidates**

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt four questions in all.
3. Question No. 1 is compulsory.
4. All parts of a question should be answered together.

1. (a) Write the botanical name of the following (any five): (1x5=5)

(i) Example of a pseudocereal

(ii) Essential oil yielding plant

(iii) Plant with dimorphic branching pattern

(iv) Fever bark tree

(v) Used in microbial broth preparation

(vi) Noble cane

*P.T.O.*

(vii) Source of fibre Ardil

(b) Match the following (any five):

(1x5=5)

|       |                    |     |           |
|-------|--------------------|-----|-----------|
| (i)   | Theine             | (a) | Bajra     |
| (ii)  | Geocarpic fruit    | (b) | Jute      |
| (iii) | Millet             | (c) | Sugarcane |
| (iv)  | Ratooning          | (d) | Tea       |
| (v)   | Bast fibre         | (e) | Flax      |
| (vi)  | Paper in Cigarette | (f) | Groundnut |

(c) Give the botanical name of plant in which the following chemical constituent is present (any five):

(1x5=5)

(i) Latex

(ii) Solanin

(iii) Digitoxin

(iv) Sinigrin

(v) Caffeine

(vi) Piperine

(vii) Nicotine

2. Differentiate between (any five):

(3x5=15)

(a) Alcoholic and Nonalcoholic beverage

(b) Drying and Non-drying oil

(c) Bast fibre and Surface fibre

- (d) Cereals and Millets
  - (e) Simple and Aggregate fruit
  - (f) Spices and Condiments
3. Write the botanical name and family and draw well labeled diagram of (any three): (5x3=15)
- (a) C.S. potato tuber
  - (b) L.S clove bud
  - (c) L.S. cotton seed
  - (d) T.S. wheat caryopsis
4. (a) Write short notes on (any two): (4X2=8)
- (i) Manmade cereal crop
  - (ii) Vavilov's concept of centre of origin.
  - (iii) Importance of spices
  - (iv) Extraction of vegetable oil
- (b) Classify tea on the basis of processing methods. (7)
5. (a) Name two principle States where the following crops are cultivated (any five):
- (i) Foxglove
  - (ii) Rice
  - (iii) Sugarcane

(iv) Blackpepper

(v) Coconut

(vi) Tea

(b) Write down the botanical name, family and uses of para rubber. (5)

(c) Discuss the process of extraction of jute fibre from the stem. (5)

6. Comment (any three): (5x3=15)

(a) Parboiled rice is superior over ordinary rice.

(b) Toxic substances in some legumes can cause diseases.

(c) Cotton is a cash crop.

(d) Coconut is known as Kalpvriksha