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- (iii) Economic importance of spices
 - (iv) Opium and its derivatives
 - (v) Processing of Jute
4. (a) What is cane sugar? Explain the processing and commercial production of sugarcane. What are the by-products of cane industry? (10)
- (b) What are the essential oils? Mention the procedure of extraction of essential oils? (5)
5. (a) What are therapeutic drugs? List three medicinal plants with Botanical name, family, their constituents and uses in curing diseases. (10)
- (b) Fruits and Vegetables are essential components of a balanced diet. Comment. (5)

(1000)

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[This question paper contains 4 printed pages.]

Your Roll No.

Sr. No. of Question Paper : 1214

Unique Paper Code : 2162011202

Name of the Paper : Plant Resources and Economic Botany

Name of the Course : B.Sc. (Hons) Botany
- DSC - 4

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 including.
3. Question No. 1 which is compulsory.
4. All parts of a question must be answered together.
5. All questions carry equal marks.
6. Draw diagrams wherever required.

P.T.O.

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1. (a) Give the Botanical name and family of the following (**any 5**) : (1×5=5)

- (i) Rice
- (ii) Pigeon pea
- (iii) Coconut
- (iv) Saffron
- (v) Tea
- (vi) Potato

- (b) Expand the following (**any 5**) : (1× 5=5)

- (i) IARI
- (ii) CIMAP
- (iii) IRRI
- (iv) NBPGR
- (v) FRI
- (vi) CDRI

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- (c) Match the following (**any 5**) : (1×5=5)

- | | |
|------------------|-----------------|
| (i) Citrus fruit | (a) Bast fibre |
| (ii) Millet | (b) Hesperidium |
| (iii) Jute | (c) Caryopsis |
| (iv) Wheat | (d) Ragi |
| (v) Coffee | (e) Groundnut |
| (vi) Gynophore | (f) Rubiaceae |

2. Draw well labelled diagrams of the following : (3×5=15)
(**any 3**)

- (i) L.S. of Clove Bud
- (ii) L.S. of Cotton seed
- (iii) L.S. of Rice grain
- (iv) T.S. of Potato tuber

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

- (i) Centre of Origin concept by Vavilov
- (ii) Processing and uses of rubber

P.T.O.