

[This question paper contains 4 printed pages.]

Sr. No. of Question Paper : 2041 **GC-3** **Your Roll No.....**

Unique Paper Code : 32161302

Name of the Paper : Core 2 Economic Botany

Name of the Course : **B.Sc. Hons. CBCS**

Semester : III

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on the receipt of this question paper.
2. Attempt any **Five** questions. Question No. **1** is compulsory.
3. Draw diagrams and write botanical names wherever necessary.
4. All parts of a question must be answered together.

1. (a) Fill in the blanks (**any five**) : (5×1=5)

(i) Mercerised cotton is prepared by treating the yarn under tension with

(ii) Paper used in cigarette wrapping is obtained from

(iii) Tea bags are made from the leaf fibres of

(iv) A major plant source used as a substitute of coffee is

(v) The aromatic of Vetiver are used for making screens and cooling jackets.

(vi) Hashish and Charas are obtained from

P.T.O.

(b) Expand and write the place where the institutes are located (**any five**) : (5×1=5)

(i) IRRI

(ii) ICRISAT

(iii) RRIM

(iv) CDRI

(v) SBI

(vi) CIMAP

(vii) CPRI

(c) Give botanical name and family of the following : (5×1=5)

(i) King of spices

(ii) Source of broth used for microbial cultures

(iii) A cash crop of India

(iv) Drug as myocardial stimulant

(v) A source of Bird's seed

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

(i) Non-drying and Drying oils

(ii) Flue curing and Air curing

(ii) Green tea and Black tea

(iv) Indica and Japonica rice

(v) White Jute and Tossa Jute

(vi) Lathyrism and Favism

3. Write short notes on the following (**any three**) : (3×5=15)
- (i) Vavilov's Centre of origin of cultivated plants
 - (ii) Retting
 - (iii) By products of sugarcane industry
 - (iv) Evolution of bread wheat
 - (v) Health hazards of tobacco
4. Draw well-labelled diagrams of the following giving botanical name and family (**any three**) : (3×5=15)
- (i) Section of mericarp of fennel
 - (ii) L.S. caryopsis of wheat
 - (iii) Jointed stem of sugarcane (a part)
 - (iv) L.S. of cotton seed
 - (v) T.S. of coffee beans
5. Comment on the following (**any three**) : (3×5=15)
- (i) Seasoning of wood
 - (ii) Economic importance of legumes
 - (iii) Extraction of essential oils
 - (iv) Parboiling
 - (v) General utilization of spices
6. (a) What is tapping ? Explain various methods of tapping and processing of rubber. (7.5)

(b) Discuss briefly the methods employed for processing of coffee. (7.5)

7. Mention the botanical name, family, plant part used, main chemical constituents and uses of the following (any five) :

(i) Foxglove

(ii) Opium poppy

(iii) Tea

(iv) Clove

(v) Quinine

(vi) Hemp

(0.5+0.5+0.5+0.5+1=3) (5×3=15)