

Exam. Code : 103206

Subject Code : 1422

B.A./B.Sc. 6<sup>th</sup> Semester

BOTANY (Economic Botany)

Paper—VI B

Time Allowed—3 Hours] [Maximum Marks—35

**Note** :- Candidates are required to attempt five questions in all including question number 1, which is compulsory. All questions carry equal marks.

1. Give short answers to each of the following questions. Answer to any of the questions should not exceed 3-4 lines. Each question carries one mark.
  - (i) Giving specific example, explain what do you understand by bast fibres.
  - (ii) Chemically the vegetative fatty oils are close to animal fats. Justify the statement giving suitable reason.
  - (iii) Giving suitable example, explain what do you understand by non-drying oils.
  - (iv) Comment upon the basic difference between cereals and spices.

(v) Despite being an important condiment, turmeric is a medicine too. Justify the statement giving suitable reasons.

(vi) Comment how different grades of green tea are prepared.

(vii) Comment upon the morphological nature of maize grain.  $7 \times 1 = 7$

2. Give the common name, botanical name and family of major cereal crops under cultivation in Punjab. Give the high yielding varieties and packages and practices for cultivation of rice under Punjab conditions.

$3+4=7$

3. Give the scientific name and family of sugar cane. Give an account of high yielding varieties and cultivation practices recommended for cultivation in Punjab.

$2+5=7$

4. Under which categories of vegetable oils Groundnut, Mustard and Coconut are categorised? Justify your answer giving suitable reasons. Give an account of cultivation practices including high yielding varieties recommended for cultivation in case of groundnut.

$3+4=7$

5. Give the botanical name, family, plant part used, active principal and medicinal utility of Poppy, Ashwagandha, Surpagandha, Belladonna, Aconite, Neem and Amla.

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6. Give an account of the botanical name of the plant, part of the plant from which the spice is obtained and the specific utility in case of Mint, Coriander, Cinnamomum, Cloves, Black pepper, Fennel and Cardamom. 7

7. (a) Define beverages. Why coffee is categorized amongst the beverages? Name the major source of coffee in the world. Give an account of preparation and uses of coffee.

(b) Write a note on cotton as a source of fibre.

5+2=7

8. (a) Write an explanatory account of major sources, processing and uses of commercial rubber.

(b) Give an account of the botanical name and practical utility of Indian bamboo. 5+2=7

9. Write explanatory notes on the following :

(i) Tea as a common man's beverage

(ii) Ginger as a source of spice and medicine

(iii) Common sources of firewood and timber.

2+2+3=7