

**B.Sc. BOTANY  
FIFTH SEMESTER  
ECONOMIC BOTANY  
BSB-502**

**SET  
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

**(Objective)**

Time: 30 mins.

Marks: 20

*Choose the correct answer from the following:*

*1 × 20 = 20*

- Name the types of domestication where Humans and plants became dependent on each other.
  - Incidental
  - Directed
  - Agriculture
  - All of the above
- The process in which wild plants get evolved into crop plants through artificial selection is known as:
  - Domestication
  - Hybridization
  - Wild plant
  - All of the above
- The percentage of tannin and theine in tea ranges from:
  - 13-18% tannin and 2-5% theine
  - 10 - 15 % tannin and 1-6% theine
  - 12-16% tannin and 1-6% theine
  - 13- 17% tannin and 2-8% theine
- The lowest grade of tea:
  - Broken Orange Pekoe
  - Pekoe
  - Dust
  - Orange Pekoe
- India stands third in the world in the production of:
  - Clove
  - Chilli
  - Cardamom
  - Tobacco
- Fumitories are substances which used as:
  - Smoking
  - Chewing
  - Condiments
  - Beverage
- Betal, Tobacco, Kattha and Supari are:
  - Fumitories
  - Masticatories
  - Narcotic
  - Spice
- Plants of new origin include:
  - Plants cultivated for over 2000 years and probably more than 4000
  - Plants cultivated for over 1000 years and probably more than 4000
  - Plants cultivated for over 1000 years and probably more than 2000
  - Plants cultivated for over 2000 years and probably more than 5000
- Which of the following is not timber yielding plant?
  - Acacia nilotica
  - Shorea robusta
  - Desmanthus virgatus
  - Toona ciliata

10. Plants inducing drowsiness, sleep and insensibility is:
  - a. Coffee
  - b. Coca
  - c. Tulsi
  - d. Catnip
11. What is the protein content in white rice?
  - a. 4-5%
  - b. 6-7%
  - c. 3-4%
  - d. 7-9%
12. Which of the following crop has the highest cultivated area in the world?
  - a. Rice
  - b. Wheat
  - c. Barley
  - d. Bajra
13. Wheat belongs to the family?
  - a. Gramineae
  - b. Poaceae
  - c. Grass family
  - d. All of these
14. Which of the following step is not involved in black tea manufacturing?
  - a. Drying and Firing
  - b. Rolling
  - c. Withering
  - d. Lump formation
15. What is the biological source of cinchona?
  - a. Bark of root
  - b. Bark of stem
  - c. Leaves
  - d. Both a & b
16. What is the most used herbicide in the rice cultivation?
  - a. Propanil
  - b. Atrazin
  - c. Sulphur
  - d. 2,4-D
17. Which of the following test is needed for grading of coffee?
  - a. Visual test
  - b. Aroma test
  - c. Tasting by cupper
  - d. All of these
18. The alkaloid present in medicinal plants are:
  - a. Salts of organic acid
  - b. Salts of inorganic acid
  - c. Salts of acetic acid
  - d. Salts of benzoic acid
19. The quinine percentage of 5.49% is obtained from the plant:
  - a. *Cinchona ledgeriana*
  - b. *Cinchona khasya*
  - c. *Cinchona succirubra*
  - d. *Cinchona robusta*
20. *Tectona grandis* belongs to the family:
  - a. Dipterocarpaceae
  - b. Meliaceae
  - c. Verbenaceae
  - d. Abietaceae

**(Descriptive)**

Time : 2 hr. 30 mins.

Marks : 50

[ Answer question no.1 & any four (4) from the rest ]

1. Write in brief the origin, cultivation and processing of Tea. 10
2. a) What is masticatories and fumitories and give an example of each with scientific name. 5+5=10  
b) Define narcotic and discuss briefly its uses and production in India.
3. What is Sericulture? Discuss about a plant that is used in sericulture and area with mulberry production in India. 2+8=10
4. What is plant domestication? Discuss in detail the types of plant domestication and its scope. 2+4+4=10
5. Discuss in details the origin of cultivated plants. 10
6. Write the characteristics and medicinal uses of Rauwolfia and Cinchona. 5+5=10
7. Write a brief note on ornamental and avenue trees of India. 10
8. Write short notes on the following: 5+5=10
  - a) By-products of sugarcane
  - b) Timber yielding plants of Assam

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