

2024
B.A./B.Sc.
Fourth Semester
GENERIC ELECTIVE – 4
BOTANY
Course Code: BOG 4.11
(Economic Botany & Plant Biotechnology)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

1. Give a brief account of the eight centres of origin with reference to Vavilov's work. What is the significance of Vavilov's contribution?
10+4=14
2. Explain the origin, morphology, and uses of rice. 4+5+5=14

UNIT-II

3. Give the general characteristics of chickpea and give an account of its economic importance. 5+9=14
4. Describe the morphology and uses of ginger. 5+9=14

UNIT-III

5. What are fibres? Mention the four cultivated cotton species. Briefly explain the processing of cotton. 2+2+10=14
6. Name the four commercial categories of tea. Explain the different steps in the processing of tea. 2+12=14

UNIT-IV

7. Give the protocol of androgenesis. Illustrate on the application. 9+5=14

8. Define endosperm culture. Give the protocol of endosperm culture and its applications. 2+8+4=14

UNIT-V

9. Write notes on the following: 7×2=14
(i) Blue-white screening
(ii) PBR 322
10. What are nucleic acids? Mention the different types supported by diagrams. 3+11=14
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