

2022
B.A./B.Sc.
Fourth Semester
GENERIC ELECTIVE – 4
BOTANY
Course Code: BOG 4.11
(Economic Botany & Biotechnology)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

1. Give an account of Vavilov's concept of centres of origin. State its importance. 10+4=14
2. Describe the origin, morphology, and uses of rice. 14

UNIT-II

3. Give a general account of the economic importance of gram. 14
4. Describe the morphology and uses of ginger. 7+7=14

UNIT-III

5. Explain the processing of cotton. 14
6. What are oils and fats? Give a general account of it with reference to groundnut. 4+10=14

UNIT-IV

7. Give the protocol and application for androgenesis. 14
8. Give an account of endosperm culture with the application. 14

UNIT-V

9. What are blotting techniques? Describe any one blotting technique. 4+10=14
10. Write notes on the following: 7×2=14
- (a) ELISA
 - (b) Human gene therapy
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