

2023
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. Explain the origin, morphology, and uses of maize. 14
2. Explain the origin, morphology, and uses of wheat. 14

UNIT-II

3. Give an account on the economic importance of soybean. State the significance of legumes in crop production. 12+2=14
4. Describe the morphology and economic importance of black pepper. 14

UNIT-III

5. Explain the methods of tea processing. Mention some uses of tea. 10+4=14
6. What are oils and fats? Give a general account on mustard with reference to its morphology, extraction, fatty acid compositions, and uses. 2+12=14

UNIT-IV

7. Explain the general procedure of plant micropropagation. What are its applications? 10+4=14

8. Give a brief account of embryo culture. What are its applications?

10+4=14

UNIT-V

9. Write notes on the following:

7×2=14

(a) Northern blotting

(b) DNA fingerprinting

10. Explain the process of PCR.

14
