

B.Sc. Semester - 4 (NEP-2020) Examination**March/April-2025****BOT: Economic Botany (Major-9)****Time: 2.00 Hours****Mark: 50****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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- Q-1 (A) Describe in detail. (Any one) (08)**
- 1) Describe the various centres of the origin of cultivated plants given by Vavilov. What was the basis of his theory?
 - 2) Discuss the role of medicinal, fiber-yielding, and oil-seed plants in human welfare. Provide examples and explain their significance.
- Q-1 (B) Write short notes on: (Any one) (04)**
- 1) significance of plant resources in human life
 - 2) significance of centers of origin in crop improvement
- Q-2 (A) Describe in detail. (Any one) (09)**
- 1) Explain the role of wheat and rice in global food security, considering their origin, morphology, processing techniques, and major uses.
 - 2) Discuss the useful parts, chemical constituents, and economic importance of chickpea in human nutrition and agriculture.
- Q-2 (B) Write short notes on: (Any one) (04)**
- 1) Economic importance and major uses of Pearl millet in human diet and agriculture.
 - 2) Origin and morphological characteristics of Pigeon pea.
- Q-3 (A) Describe in detail. (Any one) (08)**
- 1) Describe the family, scientific name, and major cultivation requirements of potato and clove.
 - 2) Explain the different stages involved in sugarcane processing and the major products obtained.
- Q-3 (B) Write short notes on: (Any one) (04)**
- 1) Chemical constituents and major uses of black pepper.
 - 2) Cultivation and morphological characteristics of Peanut.
- Q-4 (A) Describe in detail. (Any one) (09)**
- 1) Discuss the processing of tea leaves and the various types of tea produced.
 - 2) Explain the fiber extraction process of jute and its various industrial uses.
- Q-4 (B) Write short notes on: (Any one) (04)**
- 1) Chemical constituents and medicinal uses of fennel.
 - 2) The family, scientific name, and useful parts of mustard
