



Seat No. \_\_\_\_\_

**H-003-1144001**

**M. Sc. (Sem. IV) (CBCS) Examination**

**April - 2023**

**Botany : BOT-419**

*(Plant Resources Utilization)*

**Faculty Code : 003**

**Subject Code : 1144001**

Time :  $2\frac{1}{2}$  Hours / Total Marks : 70

**Instruction :** All questions are to be attended as per information.

**1** Answer the following (Any Seven) : **14**

- (a) Give the scientific name and family of ragi, flax and Coir.
- (b) What is silviculture ?
- (c) Give name of minor forest product of India.
- (d) What are anthropogenic grasslands ?
- (e) Explain use of cereals as fodder.
- (f) Define the term geographical Indication.
- (g) What is an industrial design property ?
- (h) What is pruning ?
- (i) What is WIPO ? Write its role.
- (j) Explain adaptive characters used by flora and fauna in Khajjiar.

**2** Answer the following (any Two) : **14**

- (a) Write short note on major staple crops of India.
- (b) Explain different types of oil seeds and their uses.
- (c) Write short note on different fibre crops of India.

**3** Answer the following (Compulsory) : **14**

- (a) Explain different criteria used for forest protection.
- (b) Give different types of bamboos and its uses.

**OR**

Answer the following (Compulsory) : **14**

- (a) Give significance of grassland management.
- (b) Explain use of leguminous plants as fodder resources.

**4** Answer the following : **14**

- (a) What is Plant Variety ? Give the brief outline of Plant Variety Protection Act.
- (b) What is Intellectual Property Rights ? Explain the different types of IPR property in brief.

**5** Answer the following (Any Two) : **14**

- (a) Write the Legislations covering IPRs Act in India.
- (b) Give details of Banni grassland reserve.
- (c) What is Biodiversity ? Explain the Management structure of Biodiversity Act.
- (d) Write a short note on grassland restoration.

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