

**314161**

**S-4192**

**M.Sc. (Fourth Semester  
Examination, 2024-25**

**BOTANY**

**Paper – First**

**(Conservation Biology)**

**(BOT-C-019)**

**Time : Two Hours]**

**[Maximum Marks : 60**

**Note :** Attempt any *four* questions. All questions carry equal marks.

1. Write a note on wild relatives of cultivated plants. Discuss their importance in detail.
2. Write short notes on any three of the following :
  - (a) Biodiversity Hotspots.
  - (b) Desertification.
  - (c) Invasive species.
  - (d) Nagoya Protocol.
  - (e) Habitat loss.

3. What is climate change? Discuss the major consequences of climate change on plant biodiversity.
4. Explain how various kinds of disturbance and climate define regional diversity.
5. Describe the concept of the origin of life, emphasizing the chemosynthetic theory.
6. Write a detailed note on Keystone species, citing examples of four important keystone species of the western Himalaya.
7. Write a note on the Protected Area Network (PAN) with special reference to Uttarakhand and India.
8. Explain the importance of biodiversity and threats to biodiversity.