

Unit IV

8. What is meant by *in situ* conservation of biodiversity ? Discuss it in detail.
9. (a) What is Seed Banks ? Discuss its importance also.
- (b) What is cryopreservation and discuss its role in biodiversity conservation ?
- (d) Discuss seed banks along with their role in biodiversity conservation. 5+4+4=14

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M.Sc. (NEP-2020) EXAMINATION, 2025

(Second Semester)

BOTANY

M24-BOT-202

NATURAL RESOURCES AND
BIODIVERSITY MANAGEMENT

Time : 3 Hours]

[Maximum Marks : 70

Before answering the question-paper, candidates must ensure that they have been supplied with correct and complete question-paper. No complaint, in this regard will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. Each question carries equal marks.

(Compulsory Question)

1. (i) What are measures of *ex-situ* conservation ?
- (ii) What is Green house effect ?
- (iii) What is Red data book ?
- (iv) Which Gas is responsible for ozone hole and how ?
- (v) What are vulnerable species ?
- (vi) What is National park ? Name any *two* with states where they are situated ?
- (vii) Why conservation of biodiversity is needed ? 7×2=14

Unit I

2. What is meant by water pollution ? Discuss sources and effects in detail. 14
3. (a) Discuss surface water and ground water in detail.
- (b) Differentiate between renewable and non-renewable resources along with their conservation strategies. 7×2=14

Unit II

4. Write short notes on the following : $2 \times 7 = 14$
 - (i) Forest and their importance
 - (ii) Energy plantation and petro crops.
5. Discuss ecosystem restoration and environment impact assessment briefly. 14

Unit III

6. Write short notes on the following :
4+4+4+2=14
 - (i) Habitat loss and fragmentation
 - (ii) Key stone species
 - (iii) Hotspot
 - (iv) Endemic species.
7. Discuss principle of resource conservation and conservation strategies 14