

H-4/06/22

Roll No.

IV Semester Examination, 2022

M.Sc.

BOTANY

Paper II

(Ecology-II) (Pollution & Biodiversity Conservation)

Time : 3 Hours]

[Max. Marks : 80

Note : *All questions are compulsory. Question Paper comprises of 3 sections. Section A is objective type/multiple choice questions with no internal choice. Section B is short answer type with internal choice. Section C is long answer type with internal choice.*

SECTION A

1×8=8

(Objective Type/Multiple Type Questions)

Choose the correct answer :

- 1.** Grassland with scattered trees or clump of trees are found in :
(a) Tropical rain forest biome
(b) Tropical scrub forest biome
(c) Tropical deciduous forest biome
(d) Tropical savanna biome

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- 2.** In India Latasols are found in :
(a) Western ghat (b) North western hills
(c) Deccan traps (d) Indo-gangetic plains
- 3.** Minamata epidemic was caused due to the pollution of :
(a) Lead (b) Cadmium
(c) Mercury (d) Arsenic
- 4.** Which green house gas has maximum contribution in green house effect ?
(a) Carbon di-oxide
(b) Nitrous oxide
(c) Chlorofluoro carbon
(d) Methane
- 5.** The species diversity within a community or habitat is known as :
(a) Alpha diversity (b) Beta diversity
(c) Gamma diversity (d) All of these
- 6.** Taxa believed likely to move into the Endangered category in the near future, if the causal factors continue operating such species as per IUCN have been classified as :
(a) Endangered (b) Vulnerable
(c) Rare (d) In determinate

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7. Which of the following is a means of Exsitu conservation ?

- (a) National parks (c) Sanctuaries
(c) Biosphere reserve (d) Botanical gardens

8. Who amongst the following has a basic objective to explore the plant resource of the country ?

- (a) DBT (b) BSI
(c) ICAR (d) CSIR

SECTION B

6×4=24

(Short Answer Type Questions)

Note : Attempt *one* question from each unit.

Unit-I

1. Write a note on vegetation type of Chhattisgarh.

Or

Describe the soil types of India.

Unit-II

2. Explain the Green House effect.

Or

Write the consequences of climate change.

Unit-III

3. Describe the status of Biodiversity in India.

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Or

Write a concise note on world centers of primary diversity of domesticated plants.

Unit-IV

4. Discuss the non-formal conservation efforts.

Or

Write the principles of conservation.

SECTION C

12×4=48

(Long Answer Type Questions)

Note : Attempt *one* question from each unit.

Unit-I

1. Write an account on soil types of the world.

Or

Describe the climate types of the world.

Unit-II

2. Discuss the kinds, sources and effects of Air pollution.

Or

Write brief notes on the following :

- (a) Sources of green house gases
(b) Global warming

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Unit-III

- 3.** Describe the IUCN categories of threat and global pattern.

Or

Write short notes on the following :

- (a) Plant Introduction.
- (b) Hot spots.

Unit-IV

- 4.** Write a detail note on protected areas in India.

Or

Write notes on the following :

- (a) National parks.
- (b) NBPGR

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