

G-4/410/21

Roll No.

M.Sc. IV Semester Examination, 2021**BOTANY****Paper II****(ECOLOGY-II : Pollution and 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 Questions)****1.** Who is the father of ecology in India ?

- (a) Odum (b) R. Misra
(c) Theophrastus (d) Loius Pasture

2. The percentage of N₂ in atmosphere is :

- (a) 21 (b) 78
(c) 12 (d) 87

3. Green House effect is working due to :

- (a) Infra red rays reaching earth
(b) Moisture layer in atmosphere

P.T.O.

(c) Increase in temperature due to increase in CO₂ concentration of atmosphere

(d) Ozone layer of atmosphere.

4. What is Biodiversity ?

- (a) A type of coconut
(b) A brand of oil
(c) The spread of oil living things
(d) A splant species

5. Soil Erosion can be prevented by :

- (a) Deforestation (b) Afforestation
(c) Overgrazing (d) Removal of vegetation

6. Air pollution causes :

- (a) Global Warming (b) Respiratory Problems
(c) Soil Erosion (d) None of these

7. Hos spots are regions of high :

- (a) Gravity
(b) Endemism
(c) Critically endangered pollution
(d) Diversity

8. Ex-sity conservation includes :

- (a) Zoo (b) Botanic garden
(c) Germplasm bank (d) All of the above

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SECTION B

4×6=24

(Short Answer Type Questions)

Note : Attempt one question from each unit.

Unit-I

1. Write brief note on major biome.

Or

Describe the soil types found in world.

Unit-II

2. Explain the Green House gases.

Or

Write the effect of soil pollution on plants.

Unit-III

3. Explain the role of biodiversity in ecosystem.

Or

Write a note on Hot Spot.

Unit-IV

4. Write a concise note on CSIR.

Or

Describe the field gene bank.

SECTION C

12×4=48

(Long Answer Type Questions)

Note : Attempt one question from each unit.

Unit-I

1. Describe the major vegetation type of India.

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Or

Write an account of soil type of India.

Unit-II

2. Discuss water pollution and its effect on plant and ecosystem.

Or

Write notes on :

- (a) Ozone layer and Ozone hole
(b) UV radiation

Unit-III

3. Describe Terrestrial Biodiversity.

Or

Write notes on :

- (a) Speciation and extinction
(c) IUCN categories of threat

Unit-IV

4. What do you mean by in situ conservation ?
Describe the various methods of in situ conservation of plants.

Or

Write notes on :

- (a) Cryo Bank
(b) General account of the activities of BSI.

★ ★ ★ ★ ★ c ★ ★ ★ ★ ★

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