CERT-A-1067 **CEC-1**

CERTIFICATE PROGRAMME EXAMINATION – JULY, 2024.

Environment Conservation

ENVIRONMENT AND BIODIVERSITY CONSERVATION

Time : 3 hours Maximum marks : 70

PART A — (3 × 3 = 9 marks)

Answer any THREE questions out of Five questions in 100 words

All questions carry equal marks

1. Bring out role of physical factors that affect the environment.

2. Distinguish between the autecology and synecology.

3. Why is the structure of the ecosystem important?

4. Mention the causes of greenhouse effect.

5. List out the benefits of Red Data Book in the conservation biology.

PART B — (3 × 7 = 21 marks)

Answer any THREE questions out of Five questions in 200 words

All questions carry equal marks

6. Compare and contrast the natural and physical environment.

7. Devise appropriate methods to study the ecological community.

8. Why are pyramids important in ecology? Mention its significance.

9. Assign the factors of urban ecology.

10. Evaluate the role of remote sensing in environmental management.

PART C — (4 × 10 = 40 marks)

Answer any FOUR questions out of Seven questions in 500 words

All questions carry equal marks

11. Elaborate the types of environmental health hazards. Add notes on its importance.

12. Analyze the characteristics of the organizational environment.

13. Elucidate the biotic and abiotic components of grass land ecosystem.

14. How is overpopulation affecting the environment? – Explain.

15. Comprehend the methods of ex situ conservation in biodiversity.

16. Examine the structure and functions of an ecosystem.

17. Elucidate the concept, characteristics and types of climax community.

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CERT-A-1068 **CEC-2**

CERTIFICATE PROGRAMME EXAMINATION – JULY 2024.

Environment Conservation

MANAGEMENT AND PROTECTION OF ENVIRONMENT

Time : 3 hours Maximum marks : 70

PART A — (3 × 3 = 9 marks)

Answer any THREE questions out of Five questions in 100 words.

All questions carry equal marks

1. What is the equation for steady state diffusion?

2. Discuss the sources of surface water and ground water.

3. Mention the types of interaction between plants and mycorrhizal fungi.

4. Identify the advantages of thermal processing.

5. Why is water quality modeling important?

PART B — (3 × 7 = 21 marks)

Answer any THREE questions out of
Five questions in 200 words

All questions carry equal marks.

6. How can we control gas pollution?

7. Compare and contrast the aerobic and anaerobic processes of water treatment.

8. How can microbes be used to remove hazardous heavy metals?

9. Interpret the relationship between hazardous waste and e-waste.

10. How does oxygen sag curve relate to DO and BOD?

PART C — (4 × 10 = 40 marks)

Answer any FOUR questions out of
Seven questions in 500 words.

All questions carry equal marks.

11. Elaborate the technology of air pollution abatement.

12. Examine the causes, effects and control measures of water pollution.

13. Is vermicomposting an organic manure? Mentions its advantages.

14. Critically analyze the sources and process of biomedical waste.

15. Summarize the surface water quality modelling of estuaries and lakes.

16. Discuss the vital aspects of microbial nutrient recycling in environment.

17. Estimate the parameters and disposal standards in waste water treatment.

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