Roll No.

P. I.O.

S.C.No.—301100-II

Open Elective EXAMINATION, 2024

(Batch 2023) (Main)

(Second Semester)

ENVIRONMENT AND ENERGY MANAGEMENT

18-EEM-100

Time: 3 Hours Maximum Marks · 80

Note: Attempt Five questions in all. Q. No. 1 is compulsory. All questions carry equal marks.

- Short answer type questions: $2 \times 8 = 16$
 - Ozone depletion. (a)
 - Vermicomposting. (b)
 - Bioplastics. (c)

- What are the basic principles of solar (d) energy?
- Acid rain. (e)
- What are the disadvantages of using non-(f) renewable energy sources?
- List down the practical applications of tidal energy.
- What are the pros and cons of using wind energy?
- Write a detailed note on chemical and biological methods for measurement of pollution. Also, what are the advantages of each approach in environmental monitoring?

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3. What are the primary sources of noise pollution in urban areas? What measures can be implemented to mitigate its impact on public 16 health and the environment?

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4. Define environmental management and outline its scope. Additionally, discuss some of the limitations or challenges faced in implementing effective environmental management practices.

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- 5. Write detailed notes on the following:
 - (a) Bioremediation.
 - (b) Biogas production. 8
- 6. Differentiate between renewable and non-renewable energy sources. Discuss the environmental impacts associated with each type. Provide examples of both renewable and non-renewable energy sources.
- 7. How do different generations of solar energy technology impact its applications? Elaborate.

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energy ? Also, highlight its common applications ?

What benefits and challenges are associated

8. What are the basic principles of geothermal

9. What benefits and challenges are associated with using tidal energy?