CENTRAL LIBRARY N.C.COLLEGE

2023/TDC(CBCS)/ODD/SEM/ EESDSE-501T/398

TDC (CBCS) Odd Semester Exam., 2023

ECOLOGY AND ENVIRONMENTAL SCIENCE

(5th Semester)

Course No.: EESDSE-501T

(Energy and Environment)

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

SECTION-A

Answer *fifteen* questions, selecting any *three* from each Unit: 1×15=15

Unit-I

- 1. What are non-renewable resources?
- 2. What do you mean by bioenergy?

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(Turn Over)

(2)

- 3. Name few future technologies for energy capture.
- **4.** Give two examples of global energy resources.

UNIT-II

- 5. Define agriculture.
- 6. What do you mean by global energy demand?
- 7. Mention two major energy sources used in domestic sector.
- 8. What is environmental cost?

UNIT-III

- 9. Define air pollution.
- 10. What is nuclear energy?
- 11. Give two examples of greenhouse gases.
- 12. What is spent fuel?

UNIT-IV

13. Define environmental pollution.

- 14. What are the sources of energy production?
- **15.** Mention two environmental impacts due to nuclear accidents.
- **16.** What do you mean by environmental change?

UNIT-V

- 17. What is green energy?
- 18. Define sustainable development.
- 19. Mention two uses of wind energy.
- 20. Define solar energy.

SECTION-B

Answer *five* questions, selecting *one* from each Unit: 2×5=10

UNIT-I

- **21.** What is the importance of energy conservation?
- **22.** Why is requirement of energy more in urban setups?

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(Turn Over)

UNIT-II

- 23. What is the importance of energy subsidy?
- **24.** Mention the sources of energy used in transportation sector.

UNIT-III

- 25. How are radioactive wastes classified?
- **26.** Mention various strategies for combatting global warming.

UNIT---IV

- 27. Mention two strategies to reduce overconsumption of energy.
- 28. What was the impact of Chernobyl nuclear accident?

UNIT-V

- **29.** Name the different generations of biofuels with example.
- **30.** Mention two advantages of using tidal energy.

SECTION-C

Answer *five* questions, selecting *one* from each Unit: 5×5=25

UNIT-I

- 31. Describe briefly the present-day energy scenario of urban India.
- **32.** Write a note on distribution and availability of global energy resources in India.

UNIT-II

- **33.** Give a detailed account on the role of energy in industrial sector.
- 34. Explain briefly the demand of energy in agricultural sectors of India.

Unit—III

- 35. Explain briefly the causes and effects of urban heat island. What are the mitigating strategies for urban heat island?

 3+2=5
- 36. What are the pollutants released due to fossil fuel burning? How do they affect the environment? 1+4=5

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(6)

UNIT-IV

- 37. Describe briefly the probable disadvantages of construction of dams and its impact on environment. 2½+2½=5
- **38.** Give a detailed account of the Fukushima nuclear accident.

UNIT-V

- **39.** Explain the production of biodiesel with diagrammatic representation.
- **40.** What is geothermal energy? How is geothermal energy generated? Mention the uses of geothermal energy. 1+2+2=5
