# 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

9. Define air pollutipa.

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Answer fifteen questions, selecting any three from each Unit is a selecting and three from 1×15=15

### UNIT-I

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

(Turn Over)

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

### UNIT-II

- 5. Define agriculture.
- 6. What do you mean by global energy demand?
- 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

(Continued)

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.

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- 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

- 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

- 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

### UNIT-IV

- 37. Describe briefly the probable disadvantages of construction of dams and its impact on environment.

  21/2+21/2=5
- 38. Give a detailed account of the Fukushima nuclear accident.

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- 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

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