



2022/TDC/ODD/SEM/EESDSE-501T/398

TDC (CBCS) Odd Semester Exam., 2022

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*

UNIT—I

1. Answer any three of the following questions :

1×3=3

- (a) What do you mean by renewable resources?
- (b) Write any two technologies for energy capture.
- (c) Write the names of two pollution-free energy sources.
- (d) What are global energy resources?



(2)

2. Answer any *one* of the following questions : 2

- (a) What do you mean by energy demand?
- (b) Write any four non-renewable resources of energy.

3. (a) Write a note on various resources of global energy in India. 5

Or

- (b) Describe the various methods of energy conservation in India. 5

UNIT—II

4. Answer any *three* of the following questions : 1×3=3

- (a) Define urban heat island.
- (b) What is energy subsidy?
- (c) What is energy conservation?
- (d) What is urban environment?

5. Answer any *one* of the following questions : 2

- (a) How is energy helpful in transportation sector?
- (b) Mention the role of energy in agriculture sector.

(3)

6. (a) Explain briefly the demand of energy in industrial sector globally. 5

Or

- (b) Explain the various agencies or avenues for generation of energy in urban setup. 5

UNIT—III

7. Define any *three* of the following : 1×3=3

- (a) Spent fuel
- (b) Air pollution
- (c) Urban heat island effect
- (d) Radioactive waste

8. Answer any *one* of the following questions : 2

- (a) What are the impacts of global warming?
- (b) Write the impacts of energy use on the environment.

9. (a) What is fossil fuel? Explain the various impacts of fossil fuel burning on the environment. 1+4=5

Or

- (b) Write a note on nuclear energy. 5



(4)

UNIT—IV

10. What do you mean by the following (any three)? $1 \times 3 = 3$
- (a) Eutrophication
 - (b) Environmental pollution
 - (c) Ozone hole
 - (d) Albedo effect

11. Answer any one of the following questions : 2

- (a) Mention any two impacts of construction of dams on the environment.
- (b) Write a note on Fukushima Nuclear Accident.

12. (a) Write a note on Chernobyl Nuclear Accident and its impact. $3 + 2 = 5$

Or

- (b) What do you mean by over-consumption of energy? Explain how over-consumption of energy impacts the environment, economy and global change. 5

(5)

UNIT—V

13. Define any three of the following : $1 \times 3 = 3$

- (a) Nuclear energy
- (b) Energy efficiency
- (c) Energy sustainability
- (d) Geothermal energy

14. Answer any one of the following questions : 2

- (a) What are the different sources of biofuel?
- (b) What is solar energy?

15. (a) What are alternative sources of energy? Explain the various alternative sources of energy. $1 + 4 = 5$

Or

- (b) Write a note on the action strategies opted for sustainable energy mix and management from a future prospective. 5
