

23P119

(Pages: 2)

Name:

Reg.No:

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2023

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19P ESC1 C03 - ENERGY AND ENVIRONMENT

(Environmental Science)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

Part-A

Answer any *four* questions. Each question carries 2 weightage.

1. Explain first law of thermodynamics.
2. Define solar radiation.
3. Explain the role of fossil fuels in modern economy.
4. Discuss Environmental impacts of fossil fuels utilization.
5. What is geothermal energy?
6. Comment on Nuclear reactor.
7. Define Energy use pattern in India.

(4 × 2 = 8 Weightage)

Part-B

Answer any *four* questions. Each question carries 3 weightage.

8. What are the advantages and disadvantages of nonrenewable energy.
9. Explain primary and secondary productivity.
10. Explain the significance of non renewable energy resources in India.
11. Explain the formation of fossil.
12. Differentiate nuclear-fission and fusion.
13. Discuss the pathway analysis in nuclear energy generation.
14. Discuss the energy production and impact on water.

(4 × 3 = 12 Weightage)

Part-C

Answer any *two* questions. Each question carries 5 weightage.

15. Write a note on Environmental impacts of fossil fuels exploitation and utilization.
16. Discuss modern techniques for energy resource recovery using different methods.
17. Briefly explain nuclear fuel processing, nuclear reactor and nuclear waste management.
18. Explain Sustainable energy management, problems and solutions.

(2 × 5 = 10 Weightage)
