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Name: .....

Reg.No: .....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2021**

(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 second law of thermodynamics.
2. Explain secondary energy sources.
3. Define geological time scale.
4. What are the environmental problems created by burning of Coal?
5. What is MHD system?
6. Define nuclear energy.
7. What is energy utilization?

**(4 × 2 = 8 Weightage)**

**Part-B**

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

8. Explain the ecological importance of solar radiation.
9. Briefly discuss the energy flow in an ecosystem with diagram.
10. Discuss world's energy reserves pattern.
11. Discuss the Environmental impacts of fossil fuels exploitation.
12. Explain the advantages and disadvantages of biomass energy.
13. Explain the reasons for nuclear hazards discuss with a case study.
14. Comment on the role of sustainable development in energy management.

**(4 × 3 = 12 Weightage)**

### **Part-C**

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

15. Define geological time scale and formation of fossil fuels in the geological time scale.
16. Define secondary energy resources and its different types.
17. Explain the different types of nuclear reactors.
18. Discuss Energy production and impacts on environment.

**(2 × 5 = 10 Weightage)**

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