

M.Sc. DEGREE EXAMINATION, OCTOBER / NOVEMBER 2018.

FIRST SEMSTER

Environmental Science

Paper IV - ENERGY RESOURCES

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Write the various forms of energy.
2. Write a note on coal reserves in India.
3. Comment on the need for alternate energy sources.
4. Enumerate the importance of thermal energy in India.
5. What are the advantages of hydro energy?
6. Write a note on tidal energy.
7. Discuss the legislations concerned to energy usage.
8. Explain the future energy options with respect to India.

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. What is meant by energy? Explain the various sources of energy.

Or

10. Explain in detail on "synthetic fuels". How are these environmentally friendly?

11. Explain the reservoirs of petroleum and natural gas with respect to India.

Or

12. Discuss the sources and their application of alternative and renewable energy.

13. Describe the principle and working pattern of a thermal energy storage plant.

Or

14. Explain in detail on wind energy conversion system and their importance.

15. Describe the process for the harness of biomass energy.

Or

16. Write an essay on need and importance of nuclear energy in India

