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Reg. No. : .....

Name : .....

First Semester M.Sc. Degree Examination, August 2021

Environmental Sciences

ES 213 : NATURAL RESOURCES AND ENERGY MANAGEMENT

(2018 Admission Onwards)

Time : 3 Hours Max. Marks : 75

I. Write short note on **any ten** of the following:

1. Biogas plant
2. Photovoltaics
3. Jhum land
4. Nuclear fission and fusion
5. TRAFFIC
6. Sodic soil
7. Gene pool
8. Biopiracy
9. Social forestry
10. Convention on biological diversity
11. Solar collectors and concentrators
12. Biomass energy

(10 × 2 = 20 Marks)

P.T.O.

II. Answer **any five** of the following:

13. Explain about the types of biodiversity with examples

14. Write a note on Non-conventional energy.

15. Briefly description of mineral resources of Kerala.

16. Explain about the reclamation techniques for saline soil.

17. What are the direct and indirect values of natural resources?

18. Write a note on nitrogen fixing tree species and their characteristics

19. Briefly explain about the impact of land use change on environment.

(5 × 5 = 25 Marks)

III. Answer **any three** of the following.

20. Write an essay on various sources of energy and their classification with suitable examples.

21. Explain about the power generation using wind mills and write briefly on the wind energy potential in India.

22. Explain about types of water resources and critically analyse the impact of climate change on freshwater resources. Explain the possible conservation methods for water resources.

23. Briefly explain

    (a) Biodiversity hotspots (b) Ramsar sites and their guidelines

(3 × 10 = 30 Marks)

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