

B.A./B.Sc/B.COM DEGREE END SEMESTER EXAMINATION OCTOBER/NOVEMBER 2018**SEMESTER –5: PHYSICS (OPEN COURSE)****COURSE: 15U5OCPHY1: ENERGY AND ENVIRONMENTAL STUDIES***(Common for Regular 2016 admission & Supplementary 2015 admission)*

Time: Three Hours

Max. Marks: 75

PART A*Answer all questions. Each question carries 1 Mark*

1. What is Biomass?
2. Give any two disadvantages of non-renewable energy sources.
3. What is eutrophication?
4. Give any two applications of solar pond?
5. What is a green house?
6. What is meant by noise pollution?
7. Explain the basic concept of ecology.
8. What are biomedical wastes?
9. What is source reduction?
10. What is air act? (1 x 10 = 10)

PART B*Answer any Eight questions. Each question carries 2 Marks*

11. State the advantages and disadvantages of hydroelectric power.
12. Explain the principle of solar desalination.
13. Explain the working of floats.
14. What are the characteristics of hazardous solid waste?
15. What is global warming?
16. Give four reasons for water pollution.
17. Write short note on marine pollution.
18. Using a suitable diagram, explain the working principle of a solar cooker
19. What are nuclear hazards?
20. Discuss a chemical method of disposal of wastes. (2 x 8 = 16)

PART C*Answer any Five question. Each question carries 5 Marks*

21. Briefly describe the storage of intermittently generated renewable energy.
22. Explain tidal power generation using the double basin arrangement.
23. Explain the different technologies of optical concentrators.
24. Explain the solar drying process.

25. Explain the working principle of a solar cell.
26. Explain global effects of air pollution.
27. Explain the different stages of environment impact assessment. (5 x 5 = 25)

PART D

*Answer **any Two** question. Each question carries **12** Marks*

28. Explain the principle of wind energy production.
29. How are air-pollutants classified? Discuss common air pollutants, their sources and their effects on man and the environment.
30. Using a neat diagram, explain the working principle of a solar water heater.
31. Explain about the waste minimization methods and the benefits of waste minimization. Describe briefly about the management of solid wastes. (12 x 2 = 24)
