

UNDERGRADUATE (C.B.C.S.S.) EXAMINATION, OCTOBER 2016**Fifth Semester****Open Course—ENERGY AND ENVIRONMENTAL STUDIES**

(Offered by the Board of Studies in Physics)

[2013 Admission onwards]

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer all questions briefly.
Each question carries 1 mark.*

1. What are renewable energy sources ?
2. What is geothermal energy ?
3. What is solar dryer ?
4. What is green house ?
5. What is solar photovoltaic ?
6. What is air act ?
7. Explain noise pollution.
8. What is meant by waste minimisation ?
9. What are municipal solid wastes ?
10. What is source reduction ?

(10 × 1 = 10)

Part B

*Answer any eight questions.
Each question carries 2 marks.*

11. What are the various forms of non-renewable energy ?
12. State the limits and advantages of fusion energy.
13. What is wind energy ? State merits.
14. What are secondary pollutants ?

Turn over

15. What is solar desalination ? Explain.
16. Explain ground water pollution.
17. What is global warming ?
18. What is meant by environmental ethics ?
19. State the main features of waste minimisation.
20. Give secondary pollutants that cause air pollution ?
21. What are environmental disasters ? Explain.
22. What is hazardous waste ?

(8 × 2 = 16)

Part C

*Answer any six questions.
Each question carries 4 marks.*

23. Briefly discuss the storage of intermittently generated renewable energy.
24. Discuss the solar heating of building.
25. Describe the solar drying process.
26. Distinguish between primary and secondary pollutants. Illustrate.
27. Bring out the effects and treatment for environmental degradation.
28. Discuss the remedial measures for water pollution.
29. Discuss the various marine pollution factors.
30. Give an account on the constitutional provisions to control pollution.
31. Discuss a biological method of disposal of wastes.

(6 × 4 = 24)

Part D

*Answer any two questions.
Each question carries 15 marks.*

32. Solar energy can solve majority problems of energy shortage. Discuss.
33. Discuss on the various methods adopted to prevent water pollution.
34. Discuss the general acts, water and air acts and environmental protection acts in India to control pollution.
35. Describe the waste water generation and characteristics of municipal solid wastes, hazardous wastes and biomedical wastes.

(2 × 15 = 30)