

(Pages : 3)



S – 1655

Reg. No. :

Name :

Fifth Semester B.Sc. Degree Examination, December 2023

First Degree Programme Under CBCSS

Physics

Open Course

PY 1551.4 — ENVIRONMENTAL PHYSICS

(2018 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

PART – A

Answer **all** the questions. Answer should not exceed **two** sentences. Each question carries **1** mark.

1. Write note on nuclear energy.
2. What is solar energy?
3. What is the thermodynamics of atmosphere?
4. Mention the factors governing the air pollution.
5. Define the term Particulate matter.
6. Define renewable sources of energy.
7. What is green house effect?
8. Write four facts about troposphere.

P.T.O.

9. What do you mean by sea breeze?
10. What does an air quality standard mean?

(10 × 1 = 10 Marks)

PART – B

Answer any **eight** questions. Answer should not exceed **one** small paragraph. Each question carries **2** marks.

11. Define hydro power.
12. Explain the dispersal mechanism of air pollutants.
13. Write note on bioenergy.
14. What are fuel cells?
15. Briefly explain about wind energy.
16. Write note on the composition of air.
17. What is heat island effect?
18. What are the effects of green house gases on earth?
19. Mention the factors governing the air pollution.
20. Mention in detail the water quality standards.
21. Explain any one waste disposal method.
22. What is gaseous and particulate matter?

(8 × 2 = 16 Marks)

PART – C

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

23. Explain in detail about forestry.
24. Differentiate between wet and dry deposition.

25. Explain about the environmental degradation.
26. Comment on the changing composition of local and global environment.
27. Explain in detail the Gaussian plume model.
28. Explain the thermal and radioactive pollution
29. Briefly explain the hydrostatic equilibrium.
30. Explain about the elements of weather and climate in India.
31. Illustrate the stratification and stability of atmosphere.

(6 × 4 = 24 Marks)

PART – D

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

32. Demonstrate about deforestation, and degradation of soil.
33. What is the nuclear radiation? Point out the health hazards and safety measures of nuclear radiation.
34. With neat diagram briefly explain about the Remote sensing technique, its type and stages in remote sensing.
35. What is a renewable source? Mention any five renewable sources of energy. Explain any one renewable source of energy with neat diagram.

(2 × 15 = 30 Marks)