23108105

QP CODE: 23108105

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) SPECIAL SUPPLEMENTARY EXAMINATIONS, APRIL 2023

Fifth Semester

CORE COURSE - PH5CRT08 - ENVIRONMENTAL PHYSICS AND HUMAN RIGHTS

Common for B.Sc Physics Model I, B.Sc Physics Model II Applied Electronics, B.Sc Physics Model II Computer Applications & B.Sc Physics Model III Electronic Equipment Maintenance

2020 Admission Only

89D96FE7

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Explain how industrial waste causes water pollution.
2. Give any two approaches to reduce noise pollution.
3. Give any two examples for recycling.
4. Which are the two major articles in Indian Constitution for the protection of our environment?
5. What are the major uses of geothermal energy?
6. What are the uses of hydrogen energy?
7. Give any four methods commonly used to store intermittently generated renewable energy.
8. Define solar constant.
9. What is the disadvantage of convective type solar pond?
10. Draw the equivalent circuit of a practical solar cell.
11. What does the first generation of human rights deals with?
12. Give any two examples for the violation of international covenant on economic, social and cultural rights (ICESCR).

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Write a short essay on the importance of conservation of water resources for a healthy human life.
14. What is meant by aerial photography and its use as a tool in environmental monitoring?
15. Discuss the biological and chemical processes in solid waste management.
16. Write a short essay on nuclear fission as a source of energy.
17. Discuss the ocean wave as a source of energy.
18. Write a short essay on the construction and working of passive and active solar water heaters.
19. Compare and contrast mirror strip reflector and Fresnel lens collector.
20. Write short notes on (i) the committee on the elimination of racial discrimination, and (ii) the committee on the elimination of discrimination against women.
21. Write a short essay on the fundamental rights provided by the Constitution of India.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Write an essay on the sources of air pollution and its impact on human life on earth.
23. Write an essay on the management of solid wastes, including municipal solid wastes and hazardous solid waste.
24. What is meant by biomass energy. Explain the construction and working of a moving drum type biogas plant.
25. Compare and contrast (i) solar dryer, and (ii) solar cooker.

(2×10=20)