QP CODE: 25003401

25003401

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) SPECIAL REAPPEARANCE EXAMINATIONS, FEBRUARY 2025

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

2022 Admission Only

582C6A6D

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What are the advantages and disadvantages of satellite based remote sensing over aerial photography?
2. What is meant by global warming?
3. Give any three problems associated with improper management of municipal solid wastes.
4. Explain composting in municipal solid waste management.
5. How geothermal heat energy is produced inside the Earth?
6. What are the uses of hydrogen energy?
7. Name any three intermittently generated renewable energy sources.
8. Define solar constant.
9. What are the three major layers in a salt gradient type solar pond?
10. Define fill factor of a solar cell.
11. What is the primary duty of the UN human rights committee?
12. What are the fundamental rights according to the Indian Constitution?

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. Write a short essay on noise pollution and its impact on human health.
14. Explain how consumerism results in increased waste production.
15. Write a short essay on waste minimization and resource conservation.
16. Write a short essay on nuclear fission as a source of energy.
17. Distinguish between wave energy and tidal energy.
18. Compare and contrast parabolic trough reflector and mirror strip reflector.
19. Write a short essay on different types of solar green houses.
20. What are human rights? What are its characteristics?
21. Write a short essay on the international covenant on civil and political rights.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Write an essay on the sources of water pollution and its impact on human life.
23. Write an essay on environmental laws and constitutional provisions to control pollutions in India.
24. What is meant by biomass energy? Explain the construction and working of a fixed dome biogas plant.
25. Explain how flat plate collectors are used for the conversion of solar energy to heat energy.

(2×10=20)