

QP CODE: 23129064



Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, OCTOBER
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

2017 Admission Onwards

7B72CC3B

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What is meant by environmental pollution?
2. Give any two examples of environmental pollution due to consumerism.
3. What are the benefits of environmental impact assessment?
4. What is the essence of the wild life protection act?
5. What are the merits and demerits of non-renewable energy?
6. What is the principle of electricity production from ocean thermal energy?
7. Name any three intermittently generated renewable energy sources.
8. Solar radiation is emitted in which form?
9. What are the applications of a solar pond?
10. Distinguish between passive and active solar water heaters.
11. Give any three major aspects of the international covenant on economic, social and cultural rights (ICESCR).
12. Which are the two freedoms a prisoner can enjoy out of the six freedoms guaranteed by article 19 of the Constitution of India?

(10×1=10)

Part B

*Answer any **six** questions.*

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



13. Write a short essay on air pollution and its impact on human life.
14. Briefly discuss about the environmental pollution due to natural disasters.
15. Briefly discuss the methods used in solid waste management.
16. With the help of a neat sketch, explain the production of electricity from wind energy.
17. What is meant by nuclear fusion reaction? Why it is considered as a renewable energy? What are its advantages?
18. Compare and contrast mirror strip reflector and Fresnel lens collector.
19. With the help of a diagram, explain the working of a passive space (room) heating system.
20. Discuss the three generations of human rights.
21. What is the role of UN secretariat in human rights protection. Also write a short note on the activities of the economic and social council.

(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 the management of solid wastes, including municipal solid wastes and hazardous solid waste.
24. Differentiate between the fixed dome type and moving drum type biogas plants.
25. Explain the principle, equivalent circuit, and V-I characteristics of a solar cell.

(2×10=20)