



22101788

QP CODE: 22101788

Reg No :

Name :

**B.Sc DEGREE (CBCS) SPECIAL SUPPLEMENTARY EXAMINATIONS,
MAY 2022**

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

2019 Admission Only

1BAEE786

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. Distinguish between gravity dam and arch dam.
2. Give any four sources of marine pollution.
3. What is meant by recycling?
4. What are hazardous solid wastes?
5. What are the uses of oil (petroleum) as an energy source?
6. Give any two use of a biogas plant.
7. Name any three intermittently generated renewable energy sources.
8. What is the source of energy production in the Sun?
9. Give the major advantages of a solar cooker.
10. Give any three major advantages of a photovoltaic system.
11. What are the key values which forms the foundation of human rights?
12. How many charter based bodies and treaty based bodies are there in UN human rights monitoring mechanism?





(10×1=10)

Part B

*Answer any **six** questions.*

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

13. Write a short note on non-imaging sensors used I remote sensing satellites.
14. Write a short essay on acid rain.
15. Briefly discuss the methods used in solid waste management.
16. With the help of a neat sketch discuss any one method to produce electricity from ocean waves. What are the advantages and disadvantages of wave energy?
17. Write a short essay on nuclear fusion as a source of energy.
18. Compare and contrast convective type and salt gradient type solar ponds.
19. Write a short essay on different types of optical concentrators.
20. Write a short essay on the human rights of women in India.
21. Write notes on (i) national human rights commission, and (ii) state human rights commission in India.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Discuss how natural disasters cause environmental pollution. Also discuss the role of disaster management in reducing its impact.
23. Write an essay on environmental laws and constitutional provisions to control pollutions in India.
24. Compare and contrast geothermal energy and ocean thermal energy as renewable energy sources.
25. Distinguish between passive and active solar water heater.

(2×10=20)

