22103398

QP CODE: 22103398

Reg No : .....

Name : .....

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

2017 Admission Onwards

6312D970

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. Give any two methods for rain-water harvesting.
2. Explain how fertilizers and detergents cause water pollution?
3. What are municipal solid wastes?
4. What is meant by environmental ethics?
5. What is meant by tidal energy?
6. Why hydrogen energy is considered as a renewable energy source?
7. Give any four methods commonly used to store intermittently generated renewable energy.
8. Solar radiation is emitted in which form?
9. What is the disadvantage of convective type solar pond?
10. What is a solar greenhouse
11. Article 51A(e) of the Constitution of India provides which rights to women?
12. What is the important duty of the national human rights commission of India?

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. Discuss the principle of remote sensing.
14. Explain how zoning and plantation of trees can reduce air pollution.
15. Write a short essay on the environment protection act.
16. Write a short essay on nuclear fission as a source of energy.
17. What is meant by biomass energy. Discuss any one method for biogas production.
18. With the help of a diagram, explain the working of a parabolic trough reflector.
19. With the help of a diagram, explain the working of a pn junction solar cell.
20. What are human rights? What are its characteristics?
21. What are the value dimensions of human rights?

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Write an essay on noise pollution.
23. What is meant by waste management? Discuss the various methods for effective waste minimization and resource conservation. What are the benefits of waste minimization?
24. Explain how ocean thermal energy conversion differ from geothermal energy conversion.
25. Distinguish between direct and indirect type solar water heater.

(2×10=20)