QP CODE: 22100039

22100039

Reg No : .....

Name : .....

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

A1B13866

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. Give one example each for an imaging sensor and non-imaging sensor in a remote sensing satellite.
2. Distinguish between primary and secondary pollutants.
3. What is meant by waste management?
4. What is meant by environmental ethics?
5. What are the uses of natural gas as an energy source.
6. How geothermal heat energy is produced inside the Earth?
7. Why nuclear fusion is considered as a renewable energy source?
8. Solar radiation is emitted in which form?
9. What are the two types of solar ponds?
10. What is a flat plate collector?
11. What is the mission of UN human rights council?
12. According to the Indian Constitution, what is meant by directive principles of state policy and human rights?

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. Discuss an open-well recharge system that can be easily implemented for groundwater conservation at your home.

14. Write a short essay on disaster management.

15. Distinguish between municipal solid waste and hazardous solid waste.

16. Write a short essay on moving drum type biogas plant.

17. Write a short essay on the various methods used to store intermittently generated renewable energy.

18. Write a short essay on different types of optical concentrators.

19. Explain the working of different types of solar drying systems.

20. Write a short essay on universality of human rights.

21. Write a short essay on the positive and negative aspects of science and technology in human rights.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Discuss different methods for controlling air pollution.

23. Write an essay on environmental laws and constitutional provisions to control pollutions in India.

24. Explain how the electricity production from tidal energy differ from traditional hydroelectricity.

25. Explain the principle, working, and uses of a photovoltaic system.

(2×10=20)