QP CODE: 24028973

24028973

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, OCTOBER 2024

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

A7E9B7EC

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What are the two major classification of sensors placed on a remote sensing satellite?
2. What are the impacts of noise pollution on human health?
3. What is the importance of segregation in municipal solid waste management?
4. Name the important steps associated with environmental impact assessment.
5. How geothermal heat energy is produced inside the Earth?
6. Why nuclear fusion is considered as a renewable energy source?
7. Name any three intermittently generated renewable energy sources.
8. Define solar constant.
9. What is the use of an optical concentrator?
10. What is the use of a solar dryer?
11. What is meant by minorities according to the Constitution of India?
12. Name any two scientific advancements that adversely affect the basic human rights.

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. Define air pollution and explain how it affect the environment.

14. Discuss how (i) domestic waste, (ii) sewage, and (iii) industrial waste cause water pollution.

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. Write a short essay on wind as a source of energy.

18. What is a solar pond? With the help of a neat sketch, explain the working of a salt gradient type solar pond.

19. Write a short essay on the construction and working of passive and active solar water heaters.

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

21. Write short notes on (i) the committee on economic, social and cultural rights, (ii)the human rights committee.

(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. What is meant by biomass energy. Explain the construction and working of a fixed dome biogas plant.

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

(2×10=20)