



QP CODE: 20100039

Reg No :

Name :

BSc DEGREE (CBCS) EXAMINATION, FEBRUARY 2020

Fifth Semester

Core Course - PH5CRT08 - ENVIRONMENTAL PHYSICS AND HUMAN RIGHTS

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

75607D95

Time: 3 Hours

Maximum Marks :60

Part A

*Answer any **ten** questions.*

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

1. Discuss any two application of aerial photography in environmental monitoring.
2. What are the natural disasters that cause environmental pollution?
3. What is the importance of waste management?
4. Name the important steps associated with environmental impact assessment.
5. What is biomass energy?
6. How hydroelectricity is produced?
7. Name any three intermittently generated renewable energy sources.
8. What is the source of energy production in the Sun?
9. What is a solar pond?
10. What is the use of a solar cooker?
11. Article 21-A provides which right to children?
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. Write a short essay on the significance of rainwater harvesting and its uses in Kerala.
14. Discuss the sources of greenhouse gases and its impact on global warming.
15. Discuss the (i) air (prevention and control of pollution) act, and (ii) water (prevention and control of pollution) act.
16. Write a short essay on non-renewable energy sources.
17. Write a short essay on nuclear fusion as a source of energy.
18. Write a short essay on different types of solar water heaters.
19. Compare and contrast mirror strip reflector and Fresnel lens collector.
20. Write a short essay on the international covenant on civil and political 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 different methods for controlling water pollution.
23. Discuss the various waste treatment and disposal methods to with minimal impact on environment.
24. Write an essay on geothermal energy conversion for practical uses. What are its merits and demerits.
25. Write an essay on photovoltaic sun-tracking system.

(2×10=20)

