

QP CODE: 19102438





Reg No :

Name

BSc DEGREE (CBCS) EXAMINATION, OCTOBER 2019

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

422F8FE5

Maximum Marks: 60 Time: 3 Hours

Part A

Answer any ten questions.

Each question carries 1 mark.

- 1. Explain how toxic chemicals cause water pollution.
- 2. Give any remedial measure to reduce the environmental pollution due to consumerism.
- 3. Explain how good practices can reduce waste.
- 4. What is the essence of the air (prevention and control of pollution) act?
- 5. What is meant by nuclear fission energy?
- 6. What is the role of the gear system in a wind turbine generator?
- 7. How hydrogen can be stored?
- 8. What is the disadvantage of convective type solar pond?
- 9. Distinguish between passive and active solar water heaters.
- 10. What is the use of an optical concentrator?
- 11. Define human rights.
- 12. What percentage of the total number of seats to be filled by direct election in every panchayat is reserved for women?

 $(10 \times 1 = 10)$

Part B

Answer any six questions.

Each question carries 5 marks.

13. Briefly discuss how spectral reflectance is used in remote sensing for the investigating Earth's surface features.



Page 1/2 Turn Over

- 14. Write a short essay on acid rain.
- 15. Write a short essay on environmental ethics.
- 16. What is meant by biomass energy? How biomass can be converted into useful energy?
- Write a short essay on the various methods used to store intermittently generated renewable energy
- 18. Write a short essay on Sun as a source of energy.
- 19. Write a short essay on photovoltaic sun tracking system.
- 20. Write a short essay on Universal declaration of human rights.
- 21. Write a short essay critically appraising the UN human rights regime.

 $(6 \times 5 = 30)$

新型的表现在对表现

Part C

Answer any two questions.

Each question carries 10 marks.

- 22. Discuss the importance of water harvesting and methods commonly adopted in Kerala for the same
- 23. Discuss the various waste treatment and disposal methods to with minimal impact on environment
- 24. Compare and contrast geothermal energy and ocean thermal energy as renewable energy sources.
- 25. Compare and contrast (i) solar dryer, and (ii) solar cooker.

 $(2 \times 10 = 20)$

