

4th Semester (B.Sc.-H) Final Internal Examination-2020
Department of Physics
Prabhat Kumar College, Contai
Paper-SEC-2 (RENEWABLE ENERGY AND ENERGY HARVESTING)

Group-A (Theory)
(Answer any one of the following)

1. Write short note on solar energy-its resource, harvesting and challenges.
2. What is fossil fuel? Discuss various types of fossil fuels and their yearly harvesting capacity in India.
3. Explain the construction of wind turbines to harvest wind energy.
4. What is geothermal energy? Schematically explain its harvesting.
5. Discuss the harvesting of ocean energy.
6. What is piezoelectricity? Explain how piezoelectricity can be an alternative resource of green energy.

Group-B (Practical)
(Answer any one of the following)

1. What is thermoelectricity? Discuss the Seebeck effect in this context to harvest energy from wasted heat.
2. What is solar cell? Discuss the basic principle of operation and I-V characteristics of a solar cell.
3. Discuss the theory of piezoelectric effect.

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