

Total No. of Questions : 7]
(2041)

[Total No. of Printed Pages : 2

UG (CBCS) IIIrd Year (Annual) Examination

2535

B.Sc. PHYSICS

(Renewable Energy and Energy Harvesting)

(SEC-4)

Paper : PHYS 310 TH

Time : 3 Hours]

[Maximum Marks : 50

Note :- Attempt any *five* questions. All questions carry equal marks.

1. What is solar thermal energy ? Explain the working principle of solar photo voltaic cell. How solar cell can be fabricated ? 10

2. (a) What do you mean by fossil fuels ? Write the environmental impacts of burning them ?
(b) What is sun tracking system and why is it used ? 5,5

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(1)

Turn Over

3. (a) Nuclear energy is a clean source of energy. Explain. 5,5
- (b) Discuss the production of electricity by dry steam power plant. 5,5
4. (a) What is Osmotic Power ? How can it be harnessed ? <https://www.hpboardonline.com>
- (b) Wind energy is considered a renewable energy source. Explain. 5,5
5. (a) What is geothermal energy ? Explain the meaning of geothermal drilling.
- (b) What is Hydrology ? How is electric energy generated in electric power plant ? 5,5
6. (a) Explain the formation of Tides in a sea with the help of suitable diagram.
- (b) Discuss wave energy and tidal current. 5,5
7. Discuss the mathematical formulation of piezoelectricity. Write different types of piezoelectric materials with their practical applications. 10

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