

PHYSICS GENERAL

SEMESTER IV

PAPAER SEC

Full Marks-20

Date: 08/12/2020

Time: 12.00-12:30

- A. Answer any four questions: 2x4=8
1. Which one is not a fossil fuel:
i) CNG ii) Diesel iii) Bio-diesel
 2. Ripples on the water surface of a solar pond:
i) decreases efficiency ii) increases efficiency iii) has no effect on efficiency
 3. What is solar tower?
i) A solar power plant ii) A tower to measure movement of Sun
iii) an instrument to investigate solar storm.
 4. Which of the following convert mechanical energy to electrical energy without turbines?
i) Hydroelectricity ii) wind mill iii) piezoelectricity
 5. Give one natural example of Geo-thermal energy.
- B. Answer any four questions: 3x4=12
6. Write two advantages and two disadvantages of renewable energy sources.
 7. Write down the working mechanism of a wind mill
 8. What is the efficiency of a solar cell? Write down expression of efficiency.
 9. What is biomass? How biomass energy can be harvested?
 10. What are the different zones of convective solar pond?