

PCB3EJ1 - Conventional and Non-Conventional Renewable Energy Systems

P. Pages : 1

Time : Three Hours



GUG/W/23/10705

Max. Marks : 70

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- Notes : 1. Attempt **any five** questions.
2. All questions carry equal marks.

1. What are the different forms of energy? Discuss renewable and conventional form of energy. **14**
2. Explain the rule and importance of site selection and prime movers of steam power station. **14**
3. Discuss prime movers and operating cost for hydro power stations. **14**
4. Explain fission and fusion technology fundamentals of nuclear power stations. **14**
5. Describe how hydrogen can be used as an alternative fuel for motor vehicles. **14**
6. Explain scope of solar energy as a major non- conventional energy source. **14**
7. Discuss in detail characteristics of bio-mass and its conversion process. **14**
8. What is ocean thermal gradient how ocean thermal energy is used to generate electricity? **14**
9. Sketch and explain the working of floating gas holder type biogas plant used in India (KVIC plant). **14**
10. Write a short note on **any two**. **14**
 - a) Geothermal energy.
 - b) Surge tank and penstock.
 - c) Tidal and wave energy.
 - d) Principles of solar energy in India.
