

PCB3EJ1 - Conventional and Non-Conventional Renewable Energy Systems

P. Pages : 1

Time : Three Hours



GUG/W/22/10705

Max. Marks : 70

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

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| 1. | Discuss site selection process for steam power stations. | 14 |
| 2. | Explain the term surge tank and penstock in hydro power station. | 14 |
| 3. | Explain arrangement of plant and principle auxiliaries of hydro power station. | 14 |
| 4. | Explain fission and fusion technology fundamentals of nuclear power stations. | 14 |
| 5. | Discuss the prospects and limitations of nuclear power stations. | 14 |
| 6. | Explain in detail the scope and availability of non-conventional energy sources. | 14 |
| 7. | Discuss the principles, scope and availability of ocean thermal energy. | 14 |
| 8. | Explain in detail the principles, scope and availability of Geothermal energy. | 14 |
| 9. | Explain in detail characteristics of Biomass and its conversion process. | 14 |
| 10. | Write a short note on any two . | 14 |
| | a) Layout and reactors of Nuclear power station. | |
| | b) Scope of tidal and wave energy. | |
| | c) Classification of biomass. | |
| | d) Biomass and its uses. | |
