

PEMS31 - Self Study Course-I

P. Pages : 1

Time : Three Hours



GUG/W/18/11047

Max. Marks : 70

- Notes :
1. All questions carry equal marks.
 2. Answer **any five** questions.
 3. Due credit will be given to neatness and adequate dimensions.
 4. Assume suitable data wherever necessary.
 5. Illustrate your answers wherever necessary with the help of neat sketches.
 6. Use of Non programmable calculator is permitted.

1. Explain the role of market prices in energy generation. **14**
2. What do you mean by Fair market value vs. Bottom-up Analysis for RE system pricing? **14**
3. Explain the skills which are required to be exhibited during Energy management? **14**
4. How the process flow chart is prepared for any Industry? **14**
5. State a typical energy balance of a Diesel Generator (DG) set. How do you assess waste heat recovery potential in a DG set? **14**
6. What do you mean by Co-generation and trigeneration? What is the need of Co-generator? **14**
7. Describe the main consideration in selecting a site for wind generators. **14**
8. Describe with a neat sketch the working of a wind energy system (WECS) with main components. **14**
