

M.Tech. Energy Management System (C.B.C.S. Pattern) Sem-III
PEMS31 - Self Study Course

P. Pages : 1

Time : Three Hours



GUG/S/19/11047

Max. Marks : 70

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- 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.

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| 1. | What happens when energy prices go up, explain with suitable example? | 14 |
| 2. | What happens if energy prices go down. Explain with suitable example? | 14 |
| 3. | What are the principles of Energy Management? List & discuss briefly any five on them. | 14 |
| 4. | List any six guide lining principles for carrying out material & energy balance. | 14 |
| 5. | Compare study of perturbation and observation and incremental conductance maximum power point tracking methods for PV systems. | 14 |
| 6. | How are WEC systems classified? Describe in brief. | 14 |
| 7. | Describe with a neat sketch the working of a Wind Energy Conversion System (WECS) with main components. | 14 |
| 8. | Which are the factors affecting waste heat recovery from DG set? | 14 |
