



- Notes :
1. All questions carry equal marks.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Assume suitable data wherever necessary.
 4. Illustrate your answers wherever necessary with the help of neat sketches.
 5. Use of slide rule, Logarithmic tables, Steam tables, Mollier's chart, Drawing instruments, Thermodynamic tables for moist air, Psychrometric charts and Refrigeration charts is permitted.
 6. Non programmable calculator is permitted.

1. a) Write short note on Biomass and wind power generation. 8
b) Explain the classification of energy. 8

OR

2. a) State indirect methods of utilizing solar energy and discuss anyone in detail. 8
b) State and explain the application of solar energy. 8
3. a) Describe the energy conservation and discuss the difference between energy conservation and Energy consumption. 8
b) Explain Acidification from SO₂ and NO_x. 8

OR

4. a) Write a short note on- 8
i) Acid rain
ii) Ozone depletion
b) Discuss the international energy policies in India. 8
5. a) Write a short note on wind power and Biomass energy. 8
b) Describe bio-fuels utilization pattern in past, present, future. 8

OR

6. a) Explain Renewable and Non-renewable energy sources with suitable examples. 8
b) State and explain the importance of energy conservation policy. 8

7. a) Explain MNRE and MEDA Policies in India. 8
- b) Explain roles of BEE contributes nation for economic growth and environmental benefits. 8

OR

8. a) Discuss powers and functions of state and central government under energy conservation Act-2001. 8
- b) Discuss the present energy scenario of the sources of energy. 8
9. a) Discuss global energy issues in India. 8
- b) Discuss industrial energy policies in India. 8

OR

10. a) Discuss Energy vision with respect to India. 8
- b) Discuss national and state level policies in India. 8
