- 1. Discuss with the help of recent statistics commercial and non-commercial energy reserves and production in India.
- 2. Explain the advantages and limitation of the use of non-conventional sources of energy
- 3. Explain the following a. Solar constant, b. Solar radiation data of India
- 4. Sketch and explain the working of shading ring pyrheliometer
- 5. Explain Tar sands and oil shale as energy sources and also mention their limitations
- 6. What is the need for alternate energy sources, explain by considering solar energy?
- 7. Define the following a. Latitude, b. Declination angle, c. Surface azimuth angle, d. Hour angle e. Zeneith angle
- 8. Write short notes on spectral distribution of extra-terrestrial radiation
- 9. With schematic representation, explain the mechanism of absorption, scattering, beam and diffuse radiation received at earth surface
- 10. With the help of a neat sketch, explain the working principle of sunshine recorder
- 11. With the help of appropriate sketch, explain altitude, zenith angle and solar azimuth angle
- 12. With a neat sketch, explain the working principle of an instrument used to measure global radiation
- 13. Describe the principle Of working of a solar pond with neat sketch.
- 14. Describe in brief, the different energy storage methods used in the solar system.
- 15. Define the following terms: a. Langley, b. Declination, c. Surface azimuth angle, d. Hour angle, e. Day length