Renewable Energy Resources-Super Important questions

By the TIE review team

Module-1-5 SIMP

- 1. Discuss causes of energy scarcity, further mention factors to be considered for solving energy crunch problems
- 2. Explain the term energy resources, explain its advantages and disadvantages
- 3. Explain any 5 thermal storage applications
- 4. With the help of a diagram define (a)Solar altitude angle (ii)Surface azimuth angle (iii)Zenith angle
- 5. Explain the flat plate collector with a neat sketch
- 6. Find the solar attitude angle at 2h after local solar noon on 1 June 2021 for a city, which is located at 26.7 degrees N latitude, find sunset and sunrise hours for the day length
- 7. Explain concentrating type collectors with advantages and disadvantages
- 8. Explain in detail the photovoltaic cell with a neat diagram
- 9. Explain in detail the efficiency of solar cells and fill factor, Mention their applications
- 10. Explain binary cycle geothermal power plant
- 11. Explain dry steam geothermal power plant
- 12. Explain thermochemical hydrogen production technologies
- 13. Explain Electrolytic hydrogen production technologies
- 14. Explain the main consideration in selecting a site for wind generators
- 15. Explain the waste recovery management scheme with a diagram
- 16. Explain the fixed and floating dome type of biogas plant
- 17. Explain various stages of cooling and cleaning of gasifier plants
- 18. Explain the problems faced in exploiting tidal energy
- 19. Explain how down draft gasifier works
- 20. Explain the co-operating two basin system
- 21. Explain the working of closed cycle OTEC with a diagram
- 22. Explain the working of sea wave energy conversion system