

Assignment -01

Subject: FRES

Full Mark 25

Time 1 hour

Q1 Answer the following questions

- (i) Potential of power generation from renewable energy sources in India is _____ [1]
- (ii) Total global wind power capacity in 2025 is _____ [1]
- (iii) What is meant by renewable energy sources? [1]
- (iv) What are greenhouse gases? [1]
- (v) What do mean by energy conversion? [1]

Q2 Answer the following questions

- (a) Mention relevance of fossil fuels. [2.5]
- (b) What are the present key challenges of hydropower projects in India? [2.5]
- (c) Write technical and operational hurdles in harnessing geothermal energy? [2.5]
- (d) Give your ideas about wave energy, tidal energy, and ocean thermal energy conversion. [2.5]
- (e) Mention the growth drives and trends of energy in India. [2.5]

Q3 Answer the following questions

- (a) Discuss the main features of conventional energy sources. Mention the present key challenges with them. [5]
- (b) Narrate the different renewable sources of energy with special reference to Indian context. [5]