24323

B. Tech. 6th Semester (Electric Engineering)

Examination, May–2013

ELECTRIC POWER GENERATION

Paper–EE-318-F

Time allowed : 3 hours] *[Maximum marks : 100*

Note : *Attempt **five** questions out of nine questions. **First question is compulsory** and attempt any **one** question from each section.*

1. (a) Explain different types of available energy sources. 4

(b) Explain significance of lead factor. 4

(c) Define conventional source of energy with suitable example. 4

(d) Define maximum demand and demand factor. 4

(e) Explain co-generation and give its significance. 4

Section–A

2. Explain thermal power station with neat sketch. Also give its advantages, disadvantages and applications. 20

3. (a) Discuss geothermal sources of energy in detail. 10

(b) How power is generated from solar energy ? 10

Section–B

4. Explain load forecasting, load curves and load duration curves in detail. 20

5. Write short notes on :

   (a) Depreciation 10

   (b) Tariff. 10

Section–C

6. (a) Explain recent trends in power generation. 10

   (b) Explain interconnected generation of power plants. 10

7. Give comparison of different sources of energy and also comment upon growth of power systems in India. 10

Section–D

8. Explain nuclear power plant in detail with schematic diagram. 20

9. Discuss electric energy conservation and management in detail with suitable examples. 20