

**B. Tech. 7th Semester Civil Engineering Examination
December-2013**

ENERGY PLANNING AND MANAGEMENT

Paper-CE-409-F

Time allowed : 3 hours]

[Maximum marks :100

Note : Attempt five questions in all. Question No. 1 is compulsory and attempt at least one question from each section.

1. Explain

(i) Energy Scenario

(ii) Tidal Energy

(iii) M.H.D

(iv) Base Load

(v) Frequency Control

4×5=20

Section-A

2. Explain Energy requirement in modern life and demand forecasting. 20

3. Explain in detail :

(i) Hydel Energy Production

(ii) Solar Energy Production

20

Section-B

4. (i) Discuss power plant, its working and environmental effects.
- (ii) Now in these days use of technology is must. It effects our ecosystem. Discuss its effects on our ecosystem. 20
5. Explain water pollution and its control strategies. 20

Section-C

6. (i) Explain all losses in Power generation.
- (ii) Explain Energy storage and conservation techniques used. 20
7. Explain
- (i) Economics of power
- (ii) Plant factor 20

Section-D

8. What do you understand by pressure? Give units of pressure and explain pressure measuring devices. 20
9. Explain microprocessor and its application in power systems. 20