

**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