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BIEE-025

0215

B.Tech. IN ELECTRICAL ENGINEERING

Term-End Examination

June, 2013

BIEE-025 : POWER SYSTEM PLANNING AND LOAD FORECASTING

Time : 3 hours *Maximum Marks : 70*

*Note : Attempt **any five** questions. All questions carry equal marks.*

1. (a) Discuss the objectives of planning in power systems. 7

   (b) Describe long and short term planning with suitable examples. 7

2. (a) Describe the importance and execution of transmission system planning on long term basis. 10

   (b) What are the methods of long term forecasting ? 4

3. (a) Describe the problems that electricity industry are facing in context of load forecasting. 7

   (b) Compare isolated and inter-connected power system. 7

4. (a) What is the difference between forecasting and planning ? **4**

(b) Explain Box Jenkins time series method in detail. **10**

5. (a) What do you mean by generation planning ? **4**

(b) Differentiate and compare distribution and transmission system planning. **10**

6. (a) Explain time horizon effects on forecasting methods. **10**

(b) List the steps for fundamental economic analysis for generation planning. **4**

7. Write short notes on ***any four*** of the following : **3½x4=14**

(a) Regression Method

(b) Peak load forecasting

(c) Weather load model

(d) Spatial load forecasting

(e) Use of forecasting

(f) Distribution automation