

**B.Tech. – VIEP – ELECTRICAL ENGINEERING
(BTELVI)**

Term-End Examination

December, 2017

00582

**BIEE-025 : POWER SYSTEM PLANNING AND LOAD
FORECASTING**

Time : 3 hours

Maximum Marks : 70

Note : Attempt any *five* questions. Each question carries equal marks.

1. (a) What is the role of Forecasting in power system planning? 4
- (b) Enumerate the possible effects of weather variables on power system planning. 10
2. (a) Explain the end-use method of load forecasting. 10
- (b) What are the methods of long-term forecasting? 4
3. (a) Explain Peak Load Forecasting in detail. 10
- (b) What is planning optimization according to distribution systems? 4

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) What are the differences between Distribution and Transmission system planning? Prepare a comparative study chart. 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 *two* of the following: $2 \times 7 = 14$
- (a) Peak Load Forecasting
- (b) Weather Load Model
- (c) Spatial Load Forecasting
- (d) Distribution Automation
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