**BEE5-II**

**Seventh Semester B. Tech Electrical Engineering**

**Examination Aug/Sep-2015**

**Electrical Power System Reliability**

**Time:-3Hours Max. Marks: - 75**

**SECTION-A**

**Answer any five questions. (5\*5)**

1. Consider the effect of Grounding on Stability.
2. Give a brief introduction on Swing Equation and its solution.
3. Write an introductory paragraph on Equal Area.
4. What are the required instruments for A.C. Board?
5. Briefly write about the Sequence Impedance.
6. Write in nutshell about Transformers in the Sequence Networks.
7. Comment on Typical Stability Studies.

**SECTION-B**

**Answer any two questions. (10\*2)**

1. Explain the Mechanical Analogue of System Stability.
2. Discuss in detail about the Inertia Constant.
3. Enumerate the Per Unit Quantities and Per-Cent Quantities.

**SECTION-C**

**Answer any two questions. (15\*2)**

1. How the transmission of Lines and Cables are represented? Also represent the load, faults and remote portions of the system.
2. Write a detail note on Alternating-Current Calculating Board.
3. Enumerate the pre-calculated Swing Curve. Discuss the procedure involved in pre-calculated Curves.