

APJ Abdul Kalam Technological University
First Semester M. Tech Degree Examination, December 2015
Cluster: Kollam
Branch: ELECTRICAL ENGINEERING
Specialisation: POWER SYSTEMS
Subject: 02EE6251.3 POWER DISTRIBUTION SYSTEMS

Time: 3 Hrs

Max. Marks: 60

Instructions: *Answer All Questions from Part A.*
 Answer Two Full questions from Part B.

PART A

1. a) List out the steps in the analysis of time series.
 b) Explain the load characteristics of a power system.
2. What is meant by voltage control in a power system? What are the correction methods available for voltage problems?
3. Explain the significance of different voltage levels in power system?
4. List out the basic requirements for communication infrastructure. Which are the available methods for communication?

(4 x 9=36)

PART B

5. Which are the methods of load management to be considered in an integrated manner?
6. Explain costing and pricing in power system.
7. (a) Derive the expression for system reliability for parallel systems.
 (b) Explain the application of shunt capacitance for loss reduction.

(2 x 12=24)
