

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. Explain regression analysis and correlation theory.
2. Discuss the fault studies and compare the sequence networks in an unbalanced system.
3. Discuss the steps for the synthesis of optimum line networks.
4. Explain the components and architecture of SCADA.

(4 x 9=36)

PART B

5. Explain the reasons and remedies for theft of power.
6. Which are the different types of tariffs? Explain
7. (a) Derive the expression for system reliability for series connected systems.
(b) What is meant by deregulated power systems?

(2 x 12=24)
