

APJ Abdul Kalam Technological University
Second Semester M. Tech Degree Examination, May 2016

Cluster: **Kollam**

Branch: **Electrical & Electronics Engineering**

Specialisation: **Power Systems**

Subject: **02EE6232 TRANSIENT ANALYSIS IN POWER
SYSTEM**

Time: 3 Hrs

Max. Marks: 60

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

PART A

1. Describe in brief, the different types of transients in electric power systems?
2. Mathematically analysis the double frequency recovery transients in power systems?
3. Derive the voltage and current relationships in a ferroresonant circuit?
4. Explain the various transient parameter values for transformers

(4 x 9=36)

PART B

5. Explain the protection of transmission lines against over voltages.
6. Describe the measurement of impulse voltages using sphere gaps?
7. (a) Write short notes on Expulsion type lightning arrester? (6 marks)
(b) Discuss about the cathode ray oscilloscope? (6 marks)

(2 x 12=24)
