

APJ Abdul Kalam Technological University
Second Semester M. Tech Degree Examination, April 2017

Cluster: **Kollam**

Branch: **Electrical and Electronics Engineering**

Specialisation: **POWER SYSTEMS**

Subject: **02EE6242.3. POWER SYSTEM ECONOMICS**

Time: 3 Hrs

Max. Marks: 60

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

PART A

1. What do you mean by market power? How does it affect the electricity utility operation? (4+5)
 2. What do you mean by demand elasticity? How does it affect the electricity market? (4+5)
 3. How do you conduct a generator capacity evaluation? Does that depend on MW or MVAR generation? Illustrate (4+5)
 4. Explain LMP and FTR. With an example, discriminate them for a typical electricity market (4+5)
- (4 x 9=36)**

PART B

5. What is ATC? What are the methods of pricing ATC? What is its significance? (4+4+4)
6. What are the different power tariffs? How do market forces reactive power requirements? (6+6)
7. What are the devices used for voltage stability control (12)

(2 x 12=24)
