

**Code No: OR-22/EPE**

**OR**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD  
M.Tech II Semester Supplementary Examinations, March 2009.  
DISTRIBUTION AUTOMATION  
(Electrical Power Engineering)**

**Time:3hours**

**Max.Marks:60**

**Answer any Five questions  
All questions carry equal marks**

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- 1.a) Explain centralized and decentralized control in distribution automation.
- b) Write short note on DA hardware.
  
- 2.a) Explain the capabilities of distribution automation
- b) Write short notes on:
  - i) Information management
  - ii) Load management
  
3. Explain the characteristics of a communication system for distribution automation.
  
4. Explain different communication systems used in distribution automation
  
5. Explain the following with respect to DA benefit categories.
  - a) Capital differed savings
  - b) Function benefits
  - d) Loss reduction benefit
  - e) Customer related savings
  
6. Discuss the impact of automation on the following:
  - a) Operating practices
  - b) System configuration
  - c) System capital equipment
  
7. Explain the economic comparison of alternative plans
  
8. Explain major steps in utility economic evaluation of distribution automation.

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