

R09

Code No: C5305

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.TECH I Semester Examinations, April/May 2012

DISTRIBUTION AUTOMATION

(Power System Control & Automation)

Time: 3hours

Max.Marks:60

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

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- 1.a) What is distribution automation? Explain its advantages.
- b) What are the hardware and software requirements of distribution automation.

2. Explain about
 - a) Information management
 - b) System reliability management.
 - c) Load management

- 3.a) Explain zero crossing technique used in communication systems for Distribution Automation.
- b) What are the various communication systems used in field test.

- 4.a) What are the various savings achieved from distribution automation.
- b) What are the functional benefits and potential benefits obtained from distribution automation?

- 5.a) What are the resources for determining benefits impact on distribution system.
- b) Integrate the technical benefits obtained from Distribution automation.

6. Explain any three economic evaluation methods.

- 7.a) What are the revenue requirements of alternative plans? Explain.
- b) Explain year by year revenue requirement analysis and break even analysis.

8. Write short notes on the following
 - a) Hybrid communication
 - b) System efficiency management
 - c) Book life and continuing plan analysis
