

Code No: C0701

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.Tech I - Semester Examinations, March/April 2011

**DISTRIBUTION AUTOMATION
(ELECTRICAL POWER SYSTEMS)**

Time: 3hours

Max. Marks: 60

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

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1. a) Explain the advantages of introducing Distribution Automation.
b) Write short notes on DA Hardware. [12]
2. Explain in detail about the distribution Automation functions. [12]
- 3.a) What are the requirements for DA Communication?
b) State the different communication systems used in DA. [12]
4. Explain the following:
i) Hybrid communication
ii) Fiber optics communications used in DA with a block diagram. [12]
5. Explain different categories of Distribution Automation benefits. [12]
6. Explain different parameters required for estimating the benefits of DA. [12]
7. Explain the procedure for the development and economic evaluation of Alternate plans in DA. [12]
8. Explain the short terms analysis and Break even analysis in economic evaluation of DA. [12]
