R09

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]

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