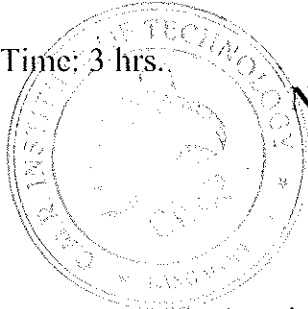


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Seventh Semester B.E. Degree Examination, June/July 2016
Testing and Commissioning of Electrical Equipment

Time: 3 hrs.

Max. Marks: 100



**Note: Answer any FIVE full questions, selecting
atleast TWO questions from each part.**

PART – A

- 1 a. Explain the principle and application of Buchholz relay. (10 Marks)
b. Describe the test setup for impulse testing of power transformers. (10 Marks)
- 2 a. Explain the causes of the noise produced by transformers. What are the steps generally taken to reduce the noise? (10 Marks)
b. Explain the safety precautions to be taken while commissioning and maintaining transformers. (10 Marks)
- 3 a. List and explain the steps involved in installation of alternator. (10 Marks)
b. What is cooling? Explain the different methods of cooling of turbo generators. (10 Marks)
- 4 a. How measurement of insulation resistance of stator winding is carried out? (10 Marks)
b. Explain the sudden 3-phase short circuit test on generator. (10 Marks)

PART – B

- 5 a. State the various categories of tests on 3-phase induction motor. (10 Marks)
b. Explain how mechanical alignment and air gap symmetry is obtained. (10 Marks)
- 6 a. Explain the foundation details used for induction motors. (10 Marks)
b. How maintenance of induction motors is carried out? (10 Marks)
- 7 a. What are the different methods of drying out of an induction motor? Explain. (10 Marks)
b. Explain high voltage testing on induction motor. (10 Marks)
- 8 a. Give the specifications of high voltage circuit breaker. (08 Marks)
b. Name the important components in protection scheme. (04 Marks)
c. List the different tests to be carried on circuit breakers. (08 Marks)