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10EE756

**Seventh Semester B.E. Degree Examination, Dec.2017/Jan.2018**  
**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. Name the various accessories and fitment on power transformer. (10 Marks)  
b. Explain the principle and application of Buchholz Relay. (10 Marks)
- 2 a. State the important steps in maintenance of power transformer. (10 Marks)  
b. Explain the test set – up impulse testing of power transformer. (10 Marks)
- 3 a. State the requirement of type – tests and routine test on synchronous machine. (10 Marks)  
b. What do you mean by cooling? Explain the different types of cooling of turbo – generator. (10 Marks)
- 4 a. Explain the function and principle of brushless excitation system. (10 Marks)  
b. State and explain the various abnormal conditions in synchronous generator. State respective protections. (10 Marks)

**PART – B**

- 5 a. Explain the requirement of foundation work for medium and large induction motor. (10 Marks)  
b. What are the standard specification of induction motor. (10 Marks)
- 6 a. Explain the procedure of drying out of induction motor by different method. (08 Marks)  
b. Explain the procedure storing a machine at site. (05 Marks)  
c. State the choice of motor for hazardous area. (07 Marks)
- 7 a. State the causes for vibration in induction motor, explain the harmful effect of vibration, how are vibration measured? (10 Marks)  
b. Explain the significance of balancing of rotor, how is balancing achieved. (10 Marks)
- 8 a. Explain the specification of high voltage circuit breaker. (05 Marks)  
b. What are the type of circuit breaker (based on arc quenching medium). (05 Marks)  
c. State the various maintenance of minimum oil circuit breaker. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.