

CBCS SCHEME

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17EE752

Seventh Semester B.E. Degree Examination, July/August 2021 Testing and Commissioning of Power System Apparatus

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. Describe briefly the various electrical tools and equipments required for electrical installation. (10 Marks)
b. Describe briefly the workmen's safety equipments used in electrical installation. (10 Marks)
- 2 a. State the important steps in maintenance of power transformers. (10 Marks)
b. Explain the different methods of drying out of power transformers. (10 Marks)
- 3 a. State and explain the various abnormal conditions in a synchronous generator and their effects. (08 Marks)
b. Explain the suitability of hydrogen as coolant in turbo alternators. (06 Marks)
c. Define short circuit ratio of a synchronous machine and explain how it is obtained. (06 Marks)
- 4 a. Explain briefly the various steps of installation of a synchronous machine. (08 Marks)
b. Explain briefly the various tests conduct on synchronous machines. (06 Marks)
c. Mention the various specifications of synchronous machine. (06 Marks)
- 5 a. State and explain the various tests on 3-phase induction motors. (08 Marks)
b. Explain the procedure of High voltage test on rotating machine. (06 Marks)
c. Explain the procedure of storing Induction machine at site. (06 Marks)
- 6 a. State and explain the various abnormal conditions in induction motors. (10 Marks)
b. State the different types of electrical tests done on induction motor. Explain any one method in detail. (10 Marks)
- 7 a. Explain briefly the causes of dim and flickering of light. (06 Marks)
b. What are the various factors which causes loose neutral connections? (07 Marks)
c. What are the various advantages of gas pressure cables? (07 Marks)
- 8 a. State the factors to be considered while selecting a cable. (10 Marks)
b. Explain how to check cable fault by means of megger. (10 Marks)
- 9 a. Explain briefly the steps involved in installation of circuit Breaker. (10 Marks)
b. State the various steps in installation and commissioning of outdoor circuit Breaker. (10 Marks)
- 10 a. Explain the protective devices used in residential electrical installation. (10 Marks)
b. Describe typical low voltage, 3-phase, 4 wire and single phase AC supply system for residential building. (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.