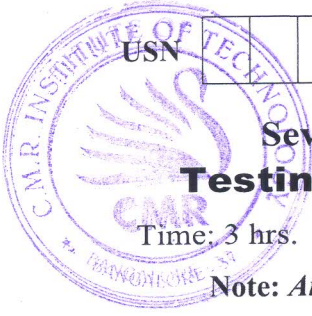


CBCS SCHEME

17EE752



Seventh Semester B.E. Degree Examination, Feb./Mar.2022

Testing and Commissions of Power System Apparatus

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Briefly explain Basic Instruments required for installation and electrical Repair work. (10 Marks)
b. Explain the procedure of maintenance of transformer oil. (10 Marks)

OR

- 2 a. Give detailed explanation (minimum 8) Indian Electrical rules. (10 Marks)
b. Discuss site selection, procurement and specification of power transformers. (10 Marks)

Module-2

- 3 a. Explain typical specification, requirements of civil works of alternators. (10 Marks)
b. Write various steps of installation of synchronous machine. (10 Marks)

OR

- 4 a. Explain slip test, temperature rise test of synchronous machines. (10 Marks)
b. Explain the procedure of negative sequence test and method of calculation from this method. (10 Marks)

Module-3

- 5 a. State the factors of selecting of Induction motor. (10 Marks)
b. Explain the drying out methods for induction motor. (10 Marks)

OR

- 6 a. State the various steps categories of test on 3 phase induction motor. (10 Marks)
b. What are the various reason for vibrations in Induction motor? How the vibrations measured and what are the permissible vibration limits. (10 Marks)

Module-4

- 7 a. Explain briefly about inspection, storage and transportation of underground cables. (10 Marks)
b. Explain the laying of power cables and control cables methods in substation and power station. (10 Marks)

OR

- 8 a. Explain the location at fault using megger. (10 Marks)
b. Discuss the list of types of cable joints. (10 Marks)

Module-5

- 9 a. State the various steps in Installation and Commissioning of switch gear is protection. (10 Marks)
b. Explain maintenance schedule and testing of domestic wiring. (10 Marks)

OR

- 10 a. Explain types of earthing in domestic wiring. (10 Marks)
b. Explain Indian Electricity rules of domestic wiring. (10 Marks)

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.

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