

# CBCS SCHEME

17EE752

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## 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)

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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.