USN ☐☐☐☐☐☐☐☐☐☐

17EE752

Seventh Semester B.E. Degree Examination, Jan./Feb. 2021
Testing and Commissioning 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. What is artificial respiration? Explain. **(10 Marks)**
   b. Explain the methods of measuring insulation resistance in case of a transformer. **(10 Marks)**

OR

2 a. List out different types of transformer tanks. Explain methods of testing transformer tanks. **(10 Marks)**
   b. Explain briefly the drying of transformers. **(10 Marks)**

Module-2

3 a. List out different steps to be followed while installing an alternator. **(10 Marks)**
   b. List out factory tests, commissioning tests and performance tests to be conducted on alternators. **(10 Marks)**

OR

4 a. Explain line charging capacity test on alternators. **(10 Marks)**
   b. Write a note on drying out of synchronous machines. **(10 Marks)**

Module-3

5 a. Explain different methods used to dry out the windings of an induction motor. **(10 Marks)**
   b. Mention various stages in the installation of an Induction Motor. **(10 Marks)**

OR

6 a. Write a note on balancing the rotor while installing an Induction Motor. **(10 Marks)**
   b. Explain vibration tests carried out on an Induction Motor. **(10 Marks)**

Module-4

7 a. Explain inspection, storage, handling and transportation of power cables. **(10 Marks)**
   b. How is insulation strength of a cable measured? Explain. **(10 Marks)**

OR

8 a. Explain various aspects to be considered while laying underground power cables. **(10 Marks)**
   b. Explain how cable faults are located using Megger. **(10 Marks)**

Module-5

9 a. What are the various steps to be followed while installing a circuit breaker? **(10 Marks)**
   b. Explain the maintenance schedule of SF_6 circuit breaker. **(10 Marks)**

OR

10 a. How is the electrical insulation of a building tested before commissioning? **(10 Marks)**
   b. Write a note on Testing of earthing continuity in a building wiring. **(10 Marks)**

* * * * *