

UNIT 1& 2: TRANSFORMERS

- 1) What are the Standards and Specifications maintained in Transformer design?
Jul-2014
- 2) Explain Installation, Inspection upon arrival at site and Storage facility at site
Dec-2014
- 3) Explain phasor diagram & phasor group of transformer
July-2013
- 4) Explain the design of a Tanks and testing of tanks in a transformer
Dec-2013
- 5) Explain the importance of Transformer oil and its characteristics
Dec-2013
- 6) Explain Electrical and Chemical properties of transformer oil
Dec-12
- 7) Describe Testing of transformer oil
Jul -12
- 8) Explain the different Drying techniques used in transformers.
Jul -14
- 9) What are the Precautions to be taken while drying in a transformer
July -13
- 10) Explain the various Testing techniques used in Transformers.
Jul – 12
- 11) what are the steps used in Commissioning of transformers.
Jul –12

UNIT 3 & 4: SYNCHRONOUS MACHINES

- 1) Explain the various SPECIFICATIONS and ratings of SM
Jul -14
 - 2) What are the various steps in installation of an alternator?
Jul -14
 - 3) What do you mean by Excitation system and explain various types.
Jul – 09
 - 4) Explain why cooling is required and explain various type in cooling
Dec - 13
 - 5) Explain Different Testing of Synchronous machines used.
Dec-12
 - 6) Explain various test being conducted in alternators.
Jul – 12 8M
- Measurement of insulation resistance

UNIT: 5, 6 & 7: INDUCTION MOTOR

- 1) Explain the Procurement and Rating of a induction motor. Jul -14
- 2) Describe the techniques used in Drying of windings in Induction motors. Dec -08
- 3) Explain various Testing of induction motors Jul -14 ,Dec-12
- 4) Explain Load Test in a IM Jul- 13, Dec-12
- 5) Explain the various Methods of starting induction motors. Jul -12

UNIT 8: SWITCHGEAR AND PROTECTIVE DEVICES

- 1) Explain the terms Relay, Fuse, Circuit breaker, Isolator, Loadbreak Switch Jul -14
- 2) Write a note on Circuit breaker and its types. Dec – 14
- 3) Explain the various Tests on circuit breakers Dec – 13
- 4) Explain Mechanical test (Endurance test) on Alternator. Dec -13
- 5) Explain Impulse voltage test and Time Vs Travel Characteristics of alternator. July -12
- 6) Explain Short circuit testing station and short circuit test July -12