

Question Bank (I-Scheme)

Name of course: Maintenance of Electrical Equipment

Unit Test: I

Subject code: 22625(MEE)

Semester: VI

Program: EE

Chapter 1: Safety and Prevention of Accidents (10Marks)

2 Marks

1. List out four different fire extinguishers
2. State four Safety signs and symbols used in industry.
3. Define the following term 1) Safety 2) Hazard
4. State the factors on which severity of electric shock depends.
5. State the need of earthing for electrical equipment.

4 Marks

1. List out Do's and Don'ts to achieve safety for Electrical Supervisor while working in substation. .
2. Explain the sequence followed in operating any one type of fire extinguisher.
3. Explain factors affecting earth resistance.
4. State which precautions to be taken to avoid fire due to electrical reasons.
5. Difference between Equipment Earthing and Neutral Earthing .
6. List any four activities that are to be carried out for rescuing a person who has received an electric shock.

Chapter 2: Maintenance Schedules (10Marks)

2 Marks

1. Explain the need of maintenance of electrical equipment.
2. Explain predictive maintenance.
3. List the Types of Maintenance.
4. State the maintenance to be carried out on breather used in transformer.

4 Marks

1. List out any four activities that are done during preventive maintenance of induction motor
2. State any four objectives of preventive maintenance of electrical equipment.
3. Distinguish between Routine and Breakdown Maintenance of Electrical equipment.

Chapter 3: Testing and Maintenance of Rotating Machines (20Marks)

2 Marks

1. Compare direct test and indirect test on electrical machines.
2. Explain routine test for measurement of D.C. resistance of winding.
3. List the different methods of testing of electrical equipment.
4. State the meaning of Special Test. Give one Example.
5. List any two advantages of Direct testing Method.

4 Marks

1. State factors involved in designing the Rotating machine foundation.
2. Explain the significance of open circuit voltage ratio test on three phase slip induction motor.
3. Explain with neat circuit diagrams the procedures to perform No load and Blocked rotor tests on three phase induction motor.
4. Explain with diagrams the synchronous impedance method of finding regulation of alternator.
5. Explain the use of each tool : (i) Earth tester (ii) Megger (iii) Bearing puller (iv) Growler
v) Dial test indicator vi) Spirit level
6. Describe procedure and objective of reduced voltage running up test on three phase Induction Motor.
7. Explain Moisture Proofness test conducted on Single phase Induction Motor.
8. Prepare Trouble shooting Chart of Three Phase Induction Motor for any four faults