Question Bank (K-Scheme)

Name of course: Maintenance of Electrical Equipment **Unit Test: I**

Subject code: 316328 (MEE) **Semester: VI** **Program: EE**

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

2 Marks

1. List out different types of fire extinguishers.
2. Define the following term 1) Safety 2) Hazard 3) Accident
3. State the factors on which severity of electric shock depends.
4. State the Roles of BIS in testing of electrical equipment.
5. State the objectives of earthing.

4 Marks

1. List out Do's and Don'ts of Electrical Supervisors.
2. List the types of artificial respiration and explain in brief any one method of providing artificial respiration.
3. State which precautions to be taken to avoid fire due to electrical reasons.
4. Explain RASS and PASS in case of fire.
5. Classify electrical equipment with regard to protection against electric shock.
6. List Internal and External causes of failure of Electrical Equipment.(four each)

Chapter 2: Testing and Maintenance (20Marks)

2 Marks

1. Explain the need of maintenance of electrical equipment.
2. Explain the Objectives of testing.
3. List the Methods of testing with examples.
4. List the Types of Maintenance.
5. Explain the importance of Tolerance.

4 Marks

1. Explain meaning and importance of ingress protection with example.
2. List Routine tests and Type test to be carried out on 3ϕ Induction Motor.
3. What are the different factors affecting preventive maintenance schedule.
4. State procedure for developing preventive maintenance schedule.

5. Explain the steps in preparing foundation for the rotating machine.
6. Explain the use of each tool : (i) Earth tester (ii) Megger (iii) Bearing puller (iv) Growler v) Dial test indicator vi) Sprit level

Chapter 3: Procedure for developing preventive maintenance schedule of Rotating Machines (10Marks)

2 Marks

1. Explain routine test for measurement of D.C. resistance of winding.
2. State the meaning of Special Test. Give one Example.

4 Marks

1. Explain the significance of open circuit voltage ratio test on three phase slip induction motor.
2. Explain with neat circuit diagrams the procedures to perform No load and Blocked rotor tests on three phase induction motor.
3. Describe procedure and objective of reduced voltage running up test on three phase Induction Motor.
4. Explain Moisture Proofness test conducted on Single phase Induction Motor.
5. Prepare Trouble shooting Chart of Three Phase Induction Motor for any four faults