

GUJARAT TECHNOLOGICAL UNIVERSITY
PDDC - SEMESTER-VIII • EXAMINATION – SUMMER • 2014

Subject Code: X 81904**Date: 31-05-2014****Subject Name: ISME****Time: 10:30 am - 01:00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1 (a) Discuss relationship between safety and productivity and also explain how it helps industry. **07**

(b) Explain how management and government helps in implementation of safety at any organization/industry. **07**

Q.2 (a) Explain role of housekeeping **07**

(b) Discuss how industrial psychology helps in prevention of accident in any industry. **07**

OR

(b) Explain different personal protective equipments used for safety. **07**

Q.3 (a) Explain how ergonomics is considered under safety act for any industry. **07**

(b) Explain importance of health, fatigue, working environment and stress of worker in industrial safety act. **07**

OR

Q.3 (a) What is equipment life cycle? explain **07**

(b) Discuss objectives of maintenance engineering in any industry **07**

Q.4 (a) Discuss with example predictive and preventive maintenance **07**

(b) What is reliability? How it is considered under maintenance **07**

OR

Q.4 (a) Lubrication is a part of maintenance: Explain in brief **07**

(b) What is availability? Explain how it is considered in maintenance **07**

Q.5 (a) Draw fault tree analysis of any two wheeler scooter that doesn't start. **07**

(b) What is condition monitoring? How it minimize cost of maintenance? **07**

OR

Q.5 (a) Explain total productive maintenance with its methodology **07**

(b) Discuss noise vibration and harshness analysis of machine **07**
