Seat No.:	Enrolment No.

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. 0.1 (a) Discuss relationship between safety and productivity and also explain 07 how it helps industry. Explain how management and government helps in implementation of 07 **(b)** safety at any organization/industry. 07 **Q.2** (a) Explain role of housekeeping Discuss how industrial psychology helps in prevention of accident in any industry. OR **(b)** Explain different personal protective equipments used for safety. **07 Q.3** (a) Explain how ergonomics is considered under safety act for any 07 industry. **(b)** Explain importance of health, fatigue, working environment and stress 07 of worker in industrial safety act. (a) What is equipment life cycle? explain **07** 0.3 (b) Discuss objectives of maintenance engineering in any industry 07 0.4 (a) Discuss with example predictive and preventive maintenance 07 What is reliability? How it is considered under maintenance **07** 0.4 (a) Lubrication is a part of maintenance: Explain in brief 07 **(b)** What is availability? Explain how it is considered in maintenance **07** (a) Draw fault tree analysis of any two wheeler scooter that doesn't start. **Q.5** 07 What is condition monitoring? How it minimize cost of maintenance? 07 Q.5 (a) Explain total productive maintenance with its methodology **07** (b) Discuss noise vibration and harshness analysis of machine 07
