

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

Subject Code: 181905**Date: 27-05-2014****Subject Name: Industrial Safety and Maintenance Engineering****Time: 10:30 am TO 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.

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|------------|---|-----------|
| Q.1 | (a) Discuss the Risk Associated with Industrial Work | 07 |
| | (b) Safety at Work Increase Productivity of Industry: Justify | 07 |
| Q.2 | (a) Explain role of Safety Education and training in Industry | 07 |
| | (b) Discuss the cost of accidents | 07 |
| | OR | |
| | (b) Role of Industrial Psychology in Prevention of Accident | 07 |
| Q.3 | (a) Discuss: (1) Safety Trials and (2) Industrial Hygiene | 07 |
| | (b) Discuss Measures for Maintenance Performance | 07 |
| | OR | |
| Q.3 | (a) Role of ESI Act for Industrial Safety: Discuss in brief | 07 |
| | (b) What are the Major chances of Equipment failure | 07 |
| Q.4 | (a) Discuss: Equipment life cycle | 07 |
| | (b) Explain how sales and marketing directly affect equipment reliability | 07 |
| | OR | |
| Q.4 | (a) Discuss objective of Preventive Maintenance | 07 |
| | (b) Breakdown maintenance is reactive type maintenance: Discuss | 07 |
| Q.5 | (a) Explain Maintenance strategy | 07 |
| | (b) Explain on load and off load testing for condition monitoring | 07 |
| | OR | |
| Q.5 | (a) List various methods of wear debris analysis: Explain any two in brief | 07 |
| | (b) Noise and vibration is major challenge for Industrial Equipment, Explain the major steps to be consider while designing the equipment to minimize Noise and Vibration. | 07 |
