

Seat No: \_\_\_\_\_

Enrollment No: \_\_\_\_\_

**PARUL UNIVERSITY**  
**FACULTY OF ENGINEERING & TECHNOLOGY**  
**M.Tech. Winter 2019 - 20 Examination**

**Semester: 3**

**Subject Code: 203200202**

**Subject Name: Industrial Safety**

**Date: 28/11 /2019**

**Time: 10:30am to 01:00pm**

**Total Marks: 60**

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**Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1** A) Give the significance of safety in industry. (05)  
B) Explain mechanical hazards, types, causes and preventive steps. (05)  
C) Explain different safety tools used in industry. (05)
- Q.2** Answer the following questions. (Attempt any three) (15)  
A) Explain fault tracing-concept and its importance.  
B) Explain types of maintenance and applications of tools used for maintenance.  
C) Explain factory act 1948 in terms of worker's safety.  
D) Explain wear- types, causes, effects, wear reduction methods.
- Q.3** A) Draw the classification chart of maintenance engineering & explain zero hours maintenance. (07)  
B) Explain tree concept for fault tracing. (08)
- OR**
- B) Discuss types of faults in machine tools and their general causes. (08)
- Q.4** A) Explain Wick feed lubrication. (07)
- OR**
- A) Explain Splash lubrication and Gravity lubrication. (07)  
B) Explain fire prevention and firefighting, equipment and methods. (08)