

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY (VSSUT), ODISHA
Odd Mid Semester Examination for Academic Session 2025-26

COURSE NAME: B.TECH.

SEMESTER: 5th SEM

BRANCH NAME: IT/CSE/EEE/ EE/ ETC

SUBJECT NAME: **Industrial Safety Engineering**

FULL MARKS: **30**

TIME: **90 Minutes**

Answer **All** Questions.

The figures in the right hand margin indicate Marks. *Symbols carry usual meaning.*

- Q1. Answer all Questions. **[2 × 3]**
- a) Define hazard. Write its types. - CO1
 - b) Explain the fire triangle. - CO2
 - c) Enlist the PPEs used in any industry for mechanical safety. - CO3
- Q2. **[4×2]**
- a) Define safety and explain its significance in an industry? - CO1
 - b) Explain the term accident with its types and causes. -CO1
- or
- a) Elaborately explain the ladder fall protection programme. - CO1
 - b) Describe lockout and tagout procedures. -CO1
- Q3. **[8]**
- Elaborately explain fire, types of fire and extinguishing agent for each type. - CO2
- or
- Explain the term “Fire extinguisher”? Discuss in brief its working principle and safety signs. - CO2
- Q4. **[8]**
- Elaborately explain the PPE used and the safety instructions followed while working with a lathe Machine. - CO3
- OR**
- Report the safety instructions followed while working in a welding shop, considering fire, mechanical and personal safety. - CO3