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   - CO2
signs.

Q4.   [8]

Elaborately explain the PPE used and the safety instructions followed while working   - CO3
with a lathe Machine.
                              OR

Report the safety instructions followed while working in a welding shop, considering   - CO3
fire, mechanical and personal safety.