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Register No.:	 Name:	

# SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

#### FOURTH SEMESTER B.TECH DEGREE EXAMINATION (R), MAY 2024

(2020 SCHEME)

Course Code: 20CHT282

Course Name: Safety Engineering of Process Plants

Max. Marks: 100 Duration: 3 Hours

#### PART A

## (Answer all questions. Each question carries 3 marks)

- 1. Write the significances of material safety data sheet.
- 2. Define the term PPE.
- 3. Outline the various classification of fire.
- 4. Distinguish between toxicology and toxic effects.
- 5. Examine some of the common source of mechanical hazards.
- 6. Differentiate between pressure and pressure hazards.
- 7. Write the significance of mock drill.
- 8. What is meant by dow Index?
- 9. Define the term risk.
- 10. What is meant by HAZOP analysis?

#### PART B

# (Answer one full question from each module, each question carries 14 marks)

#### **MODULE I**

- 11. a) Explain the importance of PPE protection? Describe some of the PPE protection equipment. (10)
  - b) Describe the evolution of safety movement in industries. (4)

### OR

- 12. a) What is industrial safety? How it is associated with risk? Give one case study (8)
  - b) Illustrate the effect during the exposure of employees to radiation. (6)

#### **MODULE II**

13. Explain about Bhopal tragedy and factory fire in Bangladesh? (14)

#### OR

14. List the required steps to be organized for fire protection. Evaluate the procedure to be followed when an emergency fire has started. (14)

#### **MODULE III**

15. a) Identify and explain the classes and symbol of chemical hazards (9)

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