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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Seventh Semester B.Tech Degree (S, FE) Examination May 2023 (2019 Scheme)



Course Code: MCN401

Course Name: INDUSTRIAL SAFETY ENGINEERING

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 3 marks.

		Marks
1	Write the importance of safety in organisations	(3)
2	How can you describe safety policy	(3)
3	How do you monitor the safety performance in industries	(3)
4	Write the significance of work permit system	(3)
5	How can workers' safety be ensured during underpinning work?	(3)
6	List the various hazards of underwater works	(3)
7	What are the various objectives of Maintenance	(3)
8	List the safety precautions to be followed during grinding operation	(3)
9	What do you meant by Hazard and Risk	(3)
10	What is meant by MSDS	(3)

PART B

Answer any one full question from each module, each carries 14 marks.

Module I

- 11 a) What are the causes of industrial accidents (7)
b) Explain the various theories of accident causation (7)

OR

- 12 With the help of a neat sketch explain safety organization structure. Also write the importance of safety organization structure. (14)

Module II

- 13 Classify personal protective equipment used in industries. List the suitability of at least seven types of PPEs. (14)

OR

- 14 a) Explain the role of management & employees in housekeeping? (7)

- b) What procedures should be taken during confined space access to protect a worker's life? (7)

Module III

- 15 a) Identify various hazards that may arise during the various stages of building construction. (7)
- b) Mention the safety precautions that will be implemented to avoid scaffolding-related incidents. (7)

OR

- 16 Discuss the important types of ergonomic hazards associated with industries. (14)
- How can we reduce its impact?

Module IV

- 17 Explain the safety precautions to be followed while doing various material handling assessments and techniques in industries (14)

OR

- 18 a) Briefly explain the maintenance of chains slings (7)
- b) Briefly explain the maintenance of clamps (7)

Module V

- 19 a) What is meant by HAZOP? How do you conduct a HAZOP analysis? (7)
- b) Briefly explain Criticality Analysis (7)

OR

- 20 How do you classify fires and explain various types of fire extinguishers used in industries? (14)
