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Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

B.Tech Degree S7 (S, FE) / S7 (PT) (S) Examination May 2024 (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

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|----|---|-----|
| 1 | How safety improves the productivity of a firm | (3) |
| 2 | What are the causes of industrial accidents | (3) |
| 3 | What are the advantages of good housekeeping | (3) |
| 4 | What are the elements of an emergency response plan from a confined space | (3) |
| 5 | How safety of the workers can be ensured during Excavation work | (3) |
| 6 | What are the various hazards of underwater works | (3) |
| 7 | Mention the various Safety considerations in Material Handling | (3) |
| 8 | What are the objectives of machinery safeguards | (3) |
| 9 | How do you classify fires | (3) |
| 10 | What do you meant by inventory analysis of hazards | (3) |

PART B

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

Module I

- 11 Explain the role of management, supervisors, government and voluntary agencies in safety. (14)

OR

- 12 a) Which are the various accident causation theories? Explain. (7)
b) Discuss the significance of safety committee (7)

Module II

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

OR

- 14 a) Write the significance of work permit system. Explain various types of work permits? (7)

- b) How will you compare the safety performance of two industries? (7)

Module III

- 15 Discuss the safety and fire prevention facilities required for a building as per National building code (14)

OR

- 16 Create a list of general safety precautions to be taken during tunnelling, blasting, and demolition operations: (14)

Module IV

- 17 What do you mean by hearing conservation program in production industries? (14)
Explain the key elements of a hearing conservation program

OR

- 18 What are the different types of machine guarding devices used in industries? (14)
Discuss the suitability of each.

Module V

- 19 a) What is meant by Preliminary Hazard Analysis? How do you conduct a Preliminary Hazard Analysis? (7)
b) Briefly explain Material Safety Data Sheets (MSDS) (7)

OR

- 20 a) Briefly explain fire and explosion hazard rating of process plants (7)
b) Explain the various steps involved in the hazard identification and risk assessment (7)
