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Name:

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSIT

SECOND SEMESTER (R) M Tech DEGREE EXAMINATION,

Discipline: MECHANICAL ENGINEERING

Course Code & Name: 222EPE049 INDUSTRIAL SAFETY

Max. Marks: 60 Duration: 2.5 Hours

PART A Answer all questions. Each question carries 5 marks Marks Define the term industrial safety. Explain its significant role in industry. (5) 1 Explain the importance of safety education and training, are the various human (5) 2 factors contributing to accidents? (5) 3 Differentiate between FTA and FMECA. 4 With suitable block diagram, explain the elements of safety management (5)systems (SMS). (5) 5 Explain the role of factories act in industrial safety. PART B Answer any 5 questions. Each question carries 7 marks 6 Define Accident. Explain any three unsafe acts which are responsible for (7) accidents in industries. State the types of hazards in a petrochemical industry and explain any three in (7) detail with possible causes and remedial actions. 8 With suitable examples explain how does safety management improve (7)productivity of a firm. With the help of a diagram, explain the integral elements of ISD with any (7)9 example. 10 What is the work men's compensation act and explain the main features of the (7)same? Also narrate the possible reasons for which compensation may not be given to employee. 11 Explain the key functions of any three different types of respiratory protective (7) equipment's.

12 Describe the logics of consequence analysis of toxic gas release.