

Manipal Institute of Technology, Manipal

(A Constituent Institute of Manipal University)



III SEMESTER M.TECH (ENVIRONMENTAL ENGINEERING) END SEMESTER EXAMINATIONS, MAY /JUNE 2016 SUBJECT: OCCUPATIONAL SAFETY AND HEALTH (ELECTIVE) [CIE 579] REVISED CREDIT SYSTEM

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

Answer any **FIVE FULL** questions.

♦ Write the neat flowchart/sketches wherever it is necessary

Briefly explain the role of organized labor in safety movement.	4
What are the fundamental legal principles (list the major six) with which safety and health should be familiar with? Explain any two in detail	6
Explain Systems theory of Accident Causation	4
What are the three factors associated physical stress in Ergonomics? Briefly explain	6
Describe the role of Engineering control in Hazard prevention.	4
What are OSHA's requirement for machine guarding?	6
What are the hazards of High Pressure system and list the strategies for reducing these hazards?	6
Explain the procedure for Fault Tree Analysis.	4
What are the major causes of insulation failure?	6
Explain hazard control in Iron and steel Industry	4
Identify the potential Hazard in Municipal Solid Waste.	6
Explain i) OSHA Citation ii) NIOSH	4
	What are the fundamental legal principles (list the major six) with which safety and health should be familiar with? Explain any two in detailExplain Systems theory of Accident CausationWhat are the three factors associated physical stress in Ergonomics? Briefly explainDescribe the role of Engineering control in Hazard prevention.What are OSHA's requirement for machine guarding?What are the hazards of High Pressure system and list the strategies for reducing these hazards?Explain the procedure for Fault Tree Analysis.What are the major causes of insulation failure?Explain hazard control in Iron and steel IndustryIdentify the potential Hazard in Municipal Solid Waste.