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MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

A Constituent Institution of Manipal University

II SEMESTER M.TECH. (ENVIRONMENTAL ENGINEERING)

END SEMESTER EXAMINATIONS, APRIL/MAY 2017

SUBJECT: OCCUPATIONAL SAFETY AND HEALTH [CIE 5247]

REVISED CREDIT SYSTEM

(29/04/2017)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Missing data may be suitable assumed.

1A.	Early safety programs were based on three E's of safety. List and Explain.	5
1B.	Briefly explain Epidemiological theory of accident causation.	5
2A.	How are Human Reaction to Workplace Stress categorized? Briefly explain	5
2B.	Distinguish between Lockout and Tagout system with one example each	5
3A.	List the commonly used symbols of FTA. Explain with example each.	5
3B.	Give any five strategies to decrease hazards of cold stress.	5
4A.	Briefly explain the classes of fire.	5
4B.	Give five major sources of electrostatic discharge leading to Electrical Hazard in workplace.	5
5A.	Briefly explain hazard control measures in a Textile Industry.	5
5B.	Identify the major and minor hazard associated with waste water treatment system.	5
