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Manipal Institute of Technology, Manipal

(A Constituent Institute of Manipal University)



VII SEMESTER B.TECH (INDUSTRIAL & PRODUCTION ENGINEERING)

END SEMESTER EXAMINATIONS, NOV/DEC 2015

SUBJECT: INDUSTRIAL SAFETY ENGINEERING [MME 463]

REVISED CREDIT SYSTEM

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

❖ Answer **ANY FIVE FULL** the questions.

- 1A. Write a short note on the development of accident prevention program before the industrial revolution. **05**
- 1B. Discuss in brief the Bird and Loftus updated dominos theory. **05**
- 2A. List & explain briefly the five major steps to be undertaken in conducting the accident investigation. **05**
- 2B. Write a short note on risk assessment in machine operation. **05**
- 3A. List & explain the 5 general strategies to be implemented for preventing slips. **05**
- 3B. Write a short note on (i) Head protection (ii) Eye & face protection. **05**
- 4A. Discuss about chemical burns and their effects. **05**
- 4B. List and explain (i) Methods of detecting pressure hazards (ii) Potential causes of gas leaks causing the pressure hazards. **05**
- 5A. Write a short note on prevention of arc flash injuries. **05**
- 5B. List and explain the ten most important issues in the life safety code relating to means of egress. **05**
- 6A. Write a short note on the evacuation warning signal with regards to preventing the radiation hazards. **03**
- 6B. Write a short note on Myofacial muscle damage. **02**
- 6C. Discuss in brief about the ethical behavior in an organization **05**