

GUJARAT TECHNOLOGICAL UNIVERSITY
ME – SEMESTER-1 (NEW) EXAMINATION – WINTER 2016

Subject Code: 2711807**Date:06/01/2017****Subject Name: Industrial Hygiene and Safety****Time: 2:30 pm to 5:00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Name the physical hazards. What is the health effects of Noise? **07**
 What are preventive(control) measures to reduce effect of Noise?
- (b) Describe the utility of Administrative Control and Personal Protective Equipments (device) in an industry. **07**
- Q.2** Explain following terms : **07**
 ACGIH
 TWA
 STEL
 BEL
 GDS
 EHS(SHE)
 MSDS
- (b) Classify the Personal Protective Equipments(PPE). Give the detail of PPE required for ears and eyes of workers. **07**
- OR**
- (b) Describe the application/use of Local Exhaust Ventilation System (LEV) in an industry **07**
- Q.3** (a) Give the health hazards in a fertilizer industry. What can be safety measures required to control them? **07**
- (b) Give the health hazards in a thermal power station. How it can be controlled? **07**
- OR**
- Q.3** (a) Write Short Notes on health effects of radiations. **07**
 (b) Write short notes on Standard (Safe)Operating Procedure[SOP] **07**
- Q.4** (a) Explain the role of Industrial Hygienist and Safety Officer in a Industry **07**
 (b) What are the health effects of heat stress? What are the preventive measures for heat stress? **07**

OR

- Q.4** (a) Write short notes on Biomedical waste management. **07**
(b) Explain Hazard Identification & Risk Assessment Techniques. **07**
- Q.5** (a) Explain Local Exhaust Ventilation(LEV),Significance of TLV. **07**
(b) Write short notes on Notifiable Diseases **07**

OR

- Q.5** (a) Write a short Notes on Factory Act **07**
(b) Explain Problems of load carrying and load lifting. **07**
