

Roll No

FT-804 (GS)

B.E. VIII Semester

Examination, December 2017

Grading System (GS)

Industrial Hygiene & Occupational Health

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) What is importance of threshold limit value. 5
b) Define : 9
 - i) TLV - TWA
 - ii) STEL
 - iii) Excursion Limit
2. Prepare MSDS for Chlorine (Cl_2) 14
3. a) If an employee is exposed to an average level of 100 PPM of xylene for 10 minutes of every hour and during the remaining 50 minutes of each hour there is no exposure of xylene. What is the TWA for xylene for this employee for a workshift of 8 hours. 7
b) In a work place there is concentration of 400PPM of Acetone (TLV - 500PPM), 20PPM of Ammonia (TLV - 25PPM) and 25PPM of Carbon monoxide (TLV-25PPM). Calculate TLV of this mixture of gases. 7
4. What are various types of noise measuring instruments? Describe working principle of sound level meter with a neat diagram. 14

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5. Write short notes on :
 - a) Industrial Audiometry 7
 - b) Noise Survey 7
6. a) Describe various types of direct reading instruments for measuring work atmospheric hazardous concentrations. 7
b) Describe toxic gas detector tubes and Impinger tube. 7
7. Write down detailed procedure of asbestos sampling and analysis. 14
8. Write short notes on :
 - a) Silicosis 7
 - b) Biological monitoring 7
