

Total No. of Questions : 8]

SEAT No. :

P2305

[4933]-401

[Total No. of Pages : 2

M.Sc.

ENVIRONMENTAL SCIENCE

**EVSC - 401 : Environmental Toxicology, Health and Safety
(2013 Pattern) (Semester-IV) (Credit System)**

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) *All questions carry equal marks.*
- 2) *Figures to the right indicate full marks*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *Your are advised to attempt not more than five questions.*

Q1) a) Describe the role of ISO 18000 in industrial safety.

b) Explain how public awareness and participation help in prevention of hazards.

Q2) a) What are sources and methods used for noise abatement in industrial environment.

b) What are sources of copper and its compounds? Explain its toxicity.

Q3) a) Discuss the need for health and safety measures in industrial environment.

b) Define LD_{50} . Explain LD_{50} with suitable example.

Q4) a) Explain physiological and metabolic effects of volatile organic compounds with suitable example.

b) Explain the terms

i) Xenobiotic

ii) Hazard

iii) TLV

iv) acute toxicity

v) epidemics.

P.T.O.

- Q5)** a) Explain any one waterborne bacterial disease.
b) What are the methods used for hazardous waste management.
- Q6)** a) Classify toxicants with reference to origin, effects and nature of toxicant with examples.
b) Explain swine flu with reference to its symptoms, preventive and control measures
- Q7)** a) Describe water and sanitation situation in rural India.
b) Explain environmental toxicants as mutagens.
- Q8)** a) Write a note on Disaster management.
b) Write a note on biological warfare.

