

Total No. of Questions : 8]

SEAT No. :

P1737

[5230]-41

[Total No. of Pages : 2

M.Sc.

ENVIRONMENTAL SCIENCE

**ENV-401 : Environmental Toxicology, Health and Safety
(2008 Pattern) (Semester-IV)**

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates:

- 1) *Answer to the two sections should be written in separate books.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *All questions carry equal marks.*

SECTION-I

Q1) Answer any two from the following:

- a) What are different parameters of safety in chemical industry.
- b) Describe the ways by which you protect environment from toxic components in store house.
- c) Give safety aspect related noise in industries.

Q2) Briefly explain the - (any two)

- a) Potential hazards in highway project.
- b) Salient features of ISO 18000.
- c) Risk identification.

Q3) Answer any two from the following:

- a) Explain the importance of LCA in ISO 14000 programme.
- b) What is importance of public participation in safety programme.
- c) Describe 'Fire triangle' and its components.

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Q4) Write short notes (any two):

- a) Factory act 1948.
- b) Role of management in safety programme.
- c) Handling and disposal of hazardous materials rules.

SECTION-II

Q5) Answer any two from the following:

- a) Explain the physiological effects of organic solvents.
- b) Classify toxic material on their properties and application.
- c) Explain the noise abatement programme.

Q6) Explain in brief (any two):

- a) Epidemics and their contaminants.
- b) Role of NGO in sanitation programme.
- c) Metabolic effects of lead (Pb) on fauna.

Q7) Answer any two from the following:

- a) Briefly explain the disaster management plan in chemical industry.
- b) Explain the role of WHO in health programme.
- c) What is ergonomics. Explain its importance in working environment.

Q8) Write short notes on (any two):

- a) Public participation in health programme.
- b) Mutagenicity.
- c) Chronic toxicity and safety regulations.

