

**B. Tech Degree VII Semester (Supplementary) Examination
June 2006**

SE 704 OCCUPATIONAL HEALTH AND HYGIENE

(1999 Admissions onwards)

Time : 3 Hours

Maximum Marks : 100

(All questions carry *EQUAL* marks)

- I. (a) How will you evaluate the hazards present in a work environment? Illustrate with the help of an example.
(b) Classify the various services offered under rehabilitation.
OR
- II. (a) Explain how mental health and morale of workers influence the occurrence of accidents in an industry.
(b) Differentiate between acute and chronic toxic effects. Give examples.
- III. (a) How will you use TLV as a guideline for the protection of the health of workers?
(b) What are the health hazards caused by different gases, liquids and fumes?
OR
- IV. (a) What are the toxic releases likely to arise in a chlor-alkali industry? How will you contain them through engineering controls?
(b) Discuss two methods of collecting samples of air-borne dust in industrial plants.
- V. (a) Give an account of the psychological and physiological effects of noise on human beings.
(b) Discuss the different approaches to noise control in work environment.
OR
- VI. (a) How will you assess the heat stress in a work environment?
(b) What are the harmful effects of heat stress on human beings?
- VII. (a) Explain the terms “work capacity” and “man-job alignment”. How does fatigue affect the productivity of an industrial worker?
OR
- VIII. (a) Discuss the following :-
(i) Classification of work load
(ii) Stress control.
- IX. (a) What are the ill effects of gas poisoning? How will you diagnose them?
(b) Explain the causes of occupational diseases of lungs?
OR
- X. (a) What are the factors to be considered while selecting personal protective equipments?
(b) Briefly explain the working of open-circuit and closed-circuit self contained breathing apparatus.