

***B. Tech Degree VIII Semester (Supplementary)
Examination, September 2008***

**SE 801 HAZARD CONTROL TECHNOLOGY
(1999 Scheme)**

Time : 3 Hours

Maximum Marks : 100

- I. (a) What is the standard procedure for manual lifting? (8)
(b) What are the safety requirements for
(i) Stairs (ii) Floor openings (iii) Platforms (12)
- OR**
- II. (a) What are the safety requirements for material handling using powered fork lifts? (10)
(b) What are the various aspects of housekeeping inside a factory? Explain. (10)
- III. (a) What are the basic requirements of a mechanical guard? List. (8)
(b) What are the different types of guards used for hazard control at point of operation? Explain. (12)
- OR**
- IV. (a) In a power press what are the different mechanisms employed for ejecting material? List and explain *any three*. (12)
(b) compare pressure sensing and presence sensing devices. (8)
- V. Prepare a preventive maintenance checklist for an EOT crane. (20)
- OR**
- VI. (a) What are the various safety attachments of boiler? Explain briefly. (12)
(b) Describe the hydrostatic testing procedure for pressure vessels. (8)
- VII. (a) Explain any two types of ionizing radiation. (10)
(b) What are different units of radiation? List out. (10)
- OR**
- VIII. (a) What is meant by Radiation Dose? Explain. (10)
(b) What are the biological effects of radiation? Explain. (10)
- IX. What are the different personnel monitoring devices used in radiation protection programs? List and explain *any four* types. (20)
- OR**
- X. (a) Write down the procedure for transporting radioactive material. (10)
(b) What are the different methods for disposal of radioactive wastes? Explain briefly. (10)

