



**B.Tech. Degree VII Semester (Supplementary)
Examination in Civil Engineering
March 2003**

**CE 704 CONSTRUCTION SAFETY AND FIRE ENGINEERING
(1998 Admissions)**

Time: 3 Hours

Maximum Marks: 100

- I. (a) Discuss the conditions on safety usually included in construction contracts. (10)
(b) "India lacks a legal frame work for ensuring safe practices in construction industry."
Do you agree with this statement? Substantiate. (10)
OR
- II. (a) Discuss the essential features of safety codes for civil works. (10)
(b) How will you ensure that safety aspects find a right place in construction planning? (10)
- III. (a) What are the duties and responsibilities of a safety inspector in a construction site? (10)
(b) Discuss briefly the safety precautions taken while carrying out under water works. (10)
OR
- IV. (a) You are asked to conduct investigation on an accident occurred at a construction site.
Explain the modus operandi of the investigation. (10)
(b) Discuss the different approaches to safety in construction industry. (10)
- V. (a) Discuss the classification of fire. (10)
(b) Describe the methods adopted for improving the fire resistance of construction materials. (10)
OR
- VI. (a) Explain the factors that determine the fire resistance of a building. (10)
(b) How will you assess the combustibility of building materials and structures? (10)
- VII. Give a detailed account of the various factors to be considered in the design of fire resistant walls and ceilings. (20)
OR
- VIII. Write short notes on:
(i) Fire transmission. (10)
(ii) Fire protection in building structures. (10)
- IX. (a) What are the fire safety requirements of an industrial building as per the National Building Code? (10)
(b) How will you assess the severity of a fire? (10)
OR
- X. Write short notes on:
(i) Repairability of fire damaged structures (10)
(ii) Repair techniques for beams. (10)