

## ***B. Tech Degree V Semester (Supplementary) Examination July 2010***

### **SE 506 SAFETY IN CONSTRUCTION (2006 Scheme)**

Time: 3 Hours

Maximum Marks: 100

#### **PART A (Answer ALL questions)**

(8 x 5 = 40)

- I. a. What are the roles of a designer in ensuring construction worker's safety?  
 b. What are musculo-skeletal disorders? Why do these happen to construction workers?  
 c. What do you mean by confined space? Give examples relevant to construction?  
 d. What is caisson disease?  
 e. What precautions are necessary in temporary power supply at construction sites?  
 f. What safety precautions are necessary for steel wire ropes?  
 g. What legal provisions are available for the abolition of contract labour?  
 h. How is a building worker benefitted from the Building Workers' Welfare Fund?

#### **PART B**

(4 x 15=60)

- II. Explain the roles of various agencies or groups in ensuring the safety of construction workers. (15)
- OR**
- III. a. Discuss the organizational aspects of safety in construction. (7)  
 b. What is ergonomics? How is it relevant to construction workers? (8)
- IV. Prepare a check list for safety in trench excavation along a busy urban road. (15)
- OR**
- V. a. What are the safety aspects in the use of ladders? (7)  
 b. What are the safety precautions in bamboo scaffolding? (8)
- VI. What are the safety precautions in the storage, stacking and handling of different types construction materials? (15)
- OR**
- VII. a. List out the safety precautions in the use of tippers and trucks in a construction site. (7)  
 b. What are the safety precautions in the use of hoists and lifts in a construction project? (8)
- VIII. Define the term 'contract labour', 'contractor' and 'controlled industries' as per the Contract Labour Act. Explain the welfare and health provisions in the Contract Labour Central Rules. (15)
- OR**
- IX. a. Discuss the applicability of BOCW Act. What do you understand by registration of building workers and how are they benefitted by it? (9)  
 b. What is Construction Workers Welfare Fund? What are the sources of income for this fund? (6)