

Roll No. ....

**23428**

**M.Tech. 2nd Semester Civil Engg.  
(Specialisation in Structural Design)  
Examination–May, 2014**

**CONSTRUCTION FAILURES**

**Paper MTSD-210**

**Time : 3 hours**

**Max. Marks : 100**

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

**Note :** Attempt any **five** questions.

1. Why construction fails ? Discuss methods for reducing the incidence of construction failure.

20

2. Explain durability of concrete structures. How it effects the concrete structure ? 20

3. Discuss the causes of effects of cracks on concrete structure. How these cracks can be reduced ? 20
4. Explain reinforced concrete construction failure exposed by earthquake and how do you reduce earthquake effect in buildings. 20
5. Discuss "Professional and legal responsibility" of construction failure. 20
6. Suggest remedies to avoid corrosion of reinforced in concrete. 20
7. Why formwork is necessary ? How removal of formwork is cause of construction failure. 20
8. Write short notes on :
  - (i) Explain design mistakes in reinforced concrete construction 5

- (ii) Non-destructive Testing 5
  - (iii) Codal provision for design of durable concrete structures. 5
  - (iv) Construction failures investigation. 5
-