

Roll No.

23428

M.E./M. Tech. 2nd Semester (STRU DGN)

Examination – June, 2013

CONSTRUCTION FAILURES

Paper : MTSD 210

Time : Three hours]

[Maximum 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 examination.

Note : Attempt any *five* questions. All questions carry equal marks.

1. What is construction failures ? Discuss the various factors causing the construction failure. 20
2. Explain Durability of concrete. Discuss various factors effecting the durability of concrete structures. 20
3. Discuss the causes & effects of cracks of Masonry structures. How these cracks can be reduced. 20

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4. Explain reinforced concrete construction failure exposed by earthquake and how do you reduce earthquake effect in building. 20
5. What is slip formwork and why it is necessary ? Explain the requirements of formwork. How removal of formwork is cause of construction failure ? 20
6. Explain "Professional & Legal responsibility" of construction failure. 20
7. Discuss the remedies to reduce corrosion of reinforced in concrete. 20
8. Write short notes on : $4 \times 5 = 20$
- (a) Construction Failure Investigation,
 - (b) Measures to reduce frequency,
 - (c) Non-Destructive Testing,
 - (d) Codal Provision for design of durable concrete structures.