

Use of mobile phones is strictly prohibited inside the examination hall.  
Write all your answer only in bullets and each valid bullet point will be valued

Department of Civil Engineering, IIT Delhi

CVL244 CONSTRUCTION PRACTICES

C Slot  
28<sup>th</sup> Mar 2018

Minor Exam - 2  
01:00PM – 02:00PM

II Sem 2017-2018  
Venue: LH111

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1. What are the stages in preparing fresh concrete? Give a list of equipment that we use for all the stages? 4
  2. What is the chemical reaction in fire? List the mechanisms – before, during and after a fire which a project manager can adopt in a construction site to prevent major catastrophes. 5
  3. What is fall protection? How should you take precautions from fall hazards? 5
  4. Compare the fabrication work done at site and at factory? Bring atleast four differences. 3
  5. In simple steps, elaborate the fabrication and erection procedure for steel structure? 5
  6. What do you mean by permanent forms? 3
  7. Using adequate pictures show the various brick bonds that you are aware of? 12
  8. What is cladding? What are the different materials used for cladding? 3
  9. Bring out atleast three differences between displacement, replacement and vibratory methods of pile driving mechanism. 5
  10. Show a schematic picture of a piling driving equipment? List the factors one will consider for selecting a pile driving equipment. 5
  11. What is pile cutter & pile extractor? 4
  12. What are the two broad ways of performing pile tests on installed piles that you are aware of? Also, discuss the purpose and the procedure for carrying out these tests using pictures. 6