

**DEPARTMENT OF CIVIL ENGINEERING: I.I.T.DELHI**  
**CEL778 CONSTRUCTION METHODS & EQUIPMENTS**

Time: 2 hours  
1 pm to 3 pm

**MAJOR TEST**  
**MS702**

Maximum Marks: 40  
3.5.2007

- Q. 1 Explain the effect of Fire on concrete members. Based on the experiment shown in the video, compare the fire resistance for various compositions in a beam with details of time and temperature rise.
- Q. 2 Explain in detail all the Environmental considerations under which concrete in marine environment is subjected to perform.
- Q. 3 Explain the different types of Prestressed construction processes in detail with sketches as seen in the video.
- Q. 4 Find the Depreciation by Double Declining Balance Method for the following data
- Initial Cost of the equipment = 100000  
Salvage Value = 14000  
N = 8 years
- Q. 5 Explain the factors affecting deshuttering process.

Marks: Q. 1 09  
Q. 2 08  
Q. 3 09  
Q. 4 09  
Q. 5 05