

**DEPARTMENT OF CIVIL ENGINEERING: I.I.T.DELHI**

**CEL778 CONSTRUCTION METHODS & EQUIPMENTS**

Time: 2 hours

**MAJOR TEST**

Maximum Marks: 40

8 AM to 10 AM

**VILT2**

2.5.2008

- 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. Describe the test set up, beam crosssection with placement of reinforcement.
- Q. 2 Explain the different types of Prestressed construction processes in detail with sketches.
- Q. 3 Find the Depreciation by Double Declining Balance Method for the following data

Initial Cost of the equipment = 50000

Salvage Value = 5000

N = 6 years

- Q. 4 Explain in detail the Durability and Corrosion Protection considerations under which concrete in marine environment is subjected to perform.
- OR**
- Q. 4 Explain in detail all the Environmental considerations under which concrete in marine environment is subjected to perform.

Marks: Q. 1 12

Q. 2 08

Q. 3 10

Q. 4 10