## www.FirstRanker.com

www.FirstRanker.com

	I No. al No. of Questions : 07	Total No. of Pages : 01
	B. Architecture (Sem6) BUILDING CONSTRUCTION AND MA Subject Code: AR-324 Paper ID: [A0933]	TERIALS-VI
Tim	e : 4 Hrs.	Max. Marks: 75
INS <sup>7</sup> 1. 2. 3.	TRUCTION TO CANDIDATES: Attempt any TWO questions from each UNIT. Assume suitable scale for drawing/details if not mentioned. Assume any missing data/dimension. Draw neat sketches who	ere necessary.
	UNIT-I	
Q1.	Discuss the manufacturing process of cast iron.	(12.5)
Q2.	Discuss aluminium as building construction material with reference to properties, form and uses. (12.5)	
Q3.	Explain casting and uses of stainless steel as building constru  UNIT-II	ction material. (12.5)
Q4.	Design and draw all the relevant details of a window using s	steel sections in an apening of
Q4.	$3m \times 1.5m$ (assuming lintel level as 2.1m)	(25)
Q5.	Design and detail out a sliding door in aluminium for an opening of size $1m \times 2.1m$ . (25)	
Q6.	Draw all the relevant details of a north light truss to a suitable scale. Also explain patent glazing. (25)	
Q7.	Write short notes on the following:	
	a. Steel flooring.	(6)
	b. Steel columns.	(6)
	c. Pre stressed steel frames.	(6)
	d. Grillage foundation.	(7)

**1** M-45045 (S17)-662