Seat No. :	
–I) tion – I	
[Max. Marks : 10	00
ary to explain theories.	
of English bond 'L'-junction.	20

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November-2014

B.Arch./ID/BCT, (Sem. -I)

AR-103 : Building Construction – l (New Syllabus)

Time: 3 Hours **Instructions:** (1) Figures to the right indicate full marks. (2) Assume suitable data, if necessary. (3) Neat proportionate sketches are necess (4) All the questions are compulsory. Draft plan, elevation of 230 mm thick brick wall 1. (Scale 1:10) Draft plan, elevation of 350 mm thick brick wall of Flemish bond Stop-End condition. (Scale 1:10) 2. Draft a wall section of a house having load-bearing brick wall with living room at ground floor and a bedroom at first floor. Show all the components of a building. (Foundation to terrace level) (Scale 1:20) 20 OR Draw and describe a cross section of an exogenous tree. (a) Draw given types of stone masonry. (Plan & Elevation) (b) Random rubble uncoursed. (1) (2) Square rubble built to course. 3. Attempt with proportionate drawing: (any **four**) 20 What do you understand by conversion of a timber? Explain any two with neat sketches.

- (b) Describe various market forms of steel available for building construction.
- (c) Quick lime and slaked lime.
- (d) Draw various shapes of brick.
- (e) What is a Curing of concrete?

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4.	Writ	te short note on following with proportionate drawing: (any five)	30
	(a)	What is the various type of mortar? Describe any two in detail.	
	(b)	Fine aggregate and course aggregate.	
	(c)	Explain clamp burning.	
	(d)	Discuss the geological classification of rocks in detail.	
	(e)	What do you understand by seasoning of timber ? Explain Kiln seasoning in detail.	
	(f)	Explain siliceous rock and calcareous rock.	
	(g)	Explain mild steel and cast iron.	
5.	Give	e correct answers of the following:	10
	(a)	Gabbro stone is metamorphic of stone.	
	(b)	Sand stone is type of stone.	
	(c)	Neem tree is classify as types of tree.	
	(d)	tree is classifying as Endogenous types of tree.	
	(e)	To construct 115 mm thick brick wall type of bond is used.	

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