

Roll No. 

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 01

Total No. of Questions : 07

**B. Arch. (2012 & Onwards) (Sem.-1)**  
**BUILDING CONSTRUCTION AND MATERIAL-I**  
**Subject Code : BACH-102**  
**Paper ID : [A0888]**

Time : 4 Hrs.

Max. Marks : 70

**INSTRUCTION TO CANDIDATES :**

1. Attempt FOUR questions in all.
2. Attempt 2 questions from UNIT-I.
3. Attempt 2 questions from UNIT-II.
4. Each question of UNIT-I carries 12.5 marks.
5. Each question of UNIT-II carries 22.5 marks.

**UNIT-I**

- Q1. Differentiate between the properties of lime mortar, cement mortar and mud mortar.
- Q2. Discuss and draw various types of Pointing in brickwork.
- Q3. Explain how bricks are manufacture in kilns.

**UNIT-II**

- Q4. Draw details of Semi Circular brick arch - elevation with terminology and a vertical section. Assume a suitable span and scale and clearly state it.
- Q5. Draw Random Rubble Masonry (built to course) for a 450mm th stone wall- elevation and section. Also label various parts.
- Q6. Draw a vertical section through a 230mm thick external brick wall in a single storey structure showing threshold, sill and lintel details.
- Q7. Draw the pians of various courses to explain a T-junction between a one brick and one & a half brick thick wall.