

No. of Printed Pages : 03

Roll No. ....

**2081**

**B. Arch. EXAMINATION, May 2017**

(Ninth Semester)

(Old Scheme) (Re-appear Only)

AR-503-G

ARCH.

Building Const. and Materials-IX

*Time : 3 Hours]*

*[Maximum Marks : 50*

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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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**Note :** Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

(3-36/1) M-2081

**P.T.O.**

### **Unit I**

1. Discuss principles of framework design in buildings. Draw sketches showing slip framework for a multistoreyed RCC Wall of RCC frame structure used in lifts.
2. Explain through sketches prefab joint details of RCC wall and slab, RCC slab and parapet, RCC column and beam, different components in a slab.

### **Unit II**

3. Differentiate between construction joint and Expansion joint. Explain application of construction joints used in building at various locations such as flooring roofing. Walling and structural component like RCC column wale.
4. Draw waterproofing details of basement with RCC slab and wall for an industrial hall of size 20 m × 40 m and 4 m height.

### **Unit III**

5. Draw sketches showing various components of energy efficient buildings in construction technologies.
6. Explain properties of various thermal insulation and sound insulation materials.

### **Unit IV**

7. Draw detail drawing of folded slab construction for roofing of Bus terminus in Haryana.
8. Draw and detail curtain wall for an academic institute main entrane, showing section through various components.