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**0505E357**

Candidate's Seat No : \_\_\_\_\_

**B.Arch. (Sem.-V) Examination**

**AR 502**

**Building Construction-V**

**May-2017**

**Time : 3 Hours]**

**[Max. Marks :/00**

**Instructions:**

- (1) All Questions are compulsory.
- (2) Use neat sketches or calculations to illustrate your answer, if necessary.
- (3) Figures on right indicate the full marks.

1. Explain any **one** in detail : **20**
    - (1) Various types of earthquake resistant mechanism details in masonry-frame and composite structures.
    - (2) Different types of joints in buildings.
  2. Short notes(**any two**) : **30**
    - (1) Portal frames in different material (concrete and steel)
    - (2) Space frames & space truss
    - (3) Pre-fab structures
  3. Explain any **one** in detail : **20**
    - (1) Concepts of different types of lifts & key dimensions.
    - (2) Design considerations and construction details of Ramps.
  4. Answer following (**any two**) : **30**
    - (1) Draw and explain in brief different types of shell structures and domes.
    - (2) Different types of trusses.
    - (3) Draw and explain application of long span structures for building namely indoor sports stadium, warehouse, factory and banquet hall.
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