

Seat No. : _____

N11-105

November-2014

B.Arch./ID/BCT, (Sem. – V)

AR-502 : Building Construction-V

(New Syllabus)

Time : 3 Hours]

[Max. Marks : 100

- Instructions :** (1) Draw neat sketches wherever required.
(2) Assume any missing data, if required.

1. Short notes (any **two**) : **30**
 - (A) Portal frames in different material (concrete and steel)
 - (B) Space frames & space truss
 - (C) Pre-fab structures

2. Detailed Description of (any **one**) : **20**
 - (A) Concepts of different types of lifts & key dimensions.
 - (B) Design considerations and construction details of Escalators.

3. Answer (any **three**) : **30**
 - (A) Concept of folded plate roofs.
 - (B) Different types of shell roofs with examples.
 - (C) Expansion joints in buildings.
 - (D) Joints to counter seismic effect.
 - (E) Gradients required in different types of ramps.

4. Explain in detail : (any **one**) **20**
 - (A) Various types of earthquake resistant mechanism details in masonry-frame and composite structures.
 - (B) Explain in detail any large span structure case study done during the semester with detailed diagrams, sketches and construction details.

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