

Seat No. : \_\_\_\_\_

**NJ-116**

**November-2013**

**B.Arch./ID/BCT Sem.-III**

**AR – 302 : Building Construction – III**

**Time : 3 Hours]**

**[Max. Marks : 100**

**Instructions :** (1) Attempt **all** questions.

(2) Figures on the right indicate full marks.

(3) Draw neat sketches wherever required.

1. Draw Sliding, Folding and Sliding & Folding door for an opening 1800 mm wide and 2100 mm high. Draw Plan, elevation and section along with hardware. Also show joinery details. **20**
  
2. Describe following terms with neat sketches and dimensions (Any 5) : **25**
  - (a) Ledge and Brace
  - (b) Transom and Mullion
  - (c) Monolithic Cantilever Stair
  - (d) Holdfast and Aldrop
  - (e) Stringer beam
  - (f) Principal rafter & purlin
  
3. In a large residential Bungalow, floor to floor height is 3000 mm. Design a staircase with handrail in the living room of the house with comfortable flight dimension. Draw plan, elevation and section of the staircase. Draw connection details and ground and first floor level and also details of a step with handrail. **20**
  
4. Differentiate between the following (any 2) : **10**
  - (a) Dog leg staircase and open well staircase
  - (b) Corner Window & Bay Window
  - (c) Sliding door & rolling door

5. Write short notes on flowing with appropriate sketches (any 3) : **15**
- (a) Compound wall & gate
  - (b) Quarter turn stair
  - (c) Evolution of timber doors
  - (d) Pitch & soffit
  - (e) Side hung Casement window
6. Draw enlarged working detail to show the end condition of an angle iron riveted steel truss of 12 m span resting on a masonry wall. Also show rain water gutter. **10**

**OR**

Draw pivoted window and operable louver window showing basic details. (Assume all details and material)

---