

**SES'S**

**SARASWATI INSTITUTE OF TECHNOLOGY**

**CIVIL ENGINEERING DEPARTMENT**

**SUBJECT: BDR(17309)**

**CLASS: S.Y.**

## **ASSIGNMENT NO .1**

- 1. Draw various types of lines ,appropriate lettering and numbering for drawing**
- 2. Draw conventions as per IS 962:1989 for**
  - I. Materials**
  - II. Doors and windows**
  - III. Sanitary and water supply installation**
  - IV. Electrical installation**

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## **ASSIGNMENT NO .2**

- 1. Collect one readymade drawing for residential building ( 1BHKD or 2BHKD) and Write summary of observation on the drawing of following points :**
  - I. Orientation of rooms**
  - II. Placements of doors and windows**
  - III. Wall thickness**
  - IV. Flooring in rooms & sanitation block**
  - V. Skirting and dado**
  - VI. Kitchen platform – size, height etc.**
  - VII. Room height**
  - VIII. Chajja Projection**
  - IX. Staircase – Rise,Tread,Landing**

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## **ASSIGNMENT NO .3**

- 1. Draw Line plans for five Residential Building with minimum three rooms and Staircase in each with w/c and bath.**

**Note: Also show position of doors and windows along with schedule of opening**

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## **ASSIGNMENT NO .4**

- 1. Draw line plans ( in scale) for the following along with size of all rooms & position of doors and windows**
  - I. School building**
  - II. Primary Health centre**
  - III. Hospital building**
  - IV. Bank**
  - V. Post office**
  - VI. Hostel building**
  - VII. Canteen**

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**ASSIGNMENT NO .5**

- 1. Draw the following from given line plan of (1BHKD) or (2BHKD) for Load Bearing structure**
  - I. Developed Plan ( scale 1:50)**
  - II. Elevation( scale 1:50)**
  - III. Section( scale 1:50)**
  - IV. Site plan( scale 1:200)**
  - V. Area statement**
  - VI. Schedule of opening**
  - VII. Staircase Plan and section( scale 1:50)**
  - VIII. RCC Chajja & lintel detailing**

**Use the following data: a) Type of structure - Load Bearing.**  
**b) Hard rock is available at a depth of 900 mm below G.L.**  
**c) PCC (1:4:8) as bed concrete 200mm thick.**  
**d) UCR masonry in plinth in CM (1:6).**  
**e) BBM in superstructure in CM (1:6), 300 mm thick for main walls and 200 mm thick for walls in WC and Bath**  
**f) Ceiling height - 3000 mm.**

**g) RCC slab (1:2:4) 120mm thick.**

**h) Assume any other data, if required**

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## ASSIGNMENT NO .6

Draw to a suitable scale two point perspective drawing of steps shown in Fig.

(i) The station point is 3 m from picture plane and eye level is at 1.4 m above G.L.

(ii) Draw to a suitable scale two point perspective drawing for the object shown in Fig3. Assume

(ii) eye level at 1.2 m from GL and station point 3 m from PP.

