

LABORATORY WORK SHEET

| Name of the Student . Class. Brcch CSF Semester. I | | | | Roll Number | | |
|---|----------------------|------------------------|----------------------------|-------------------------------|----------------|------------|
| Course Code | | Course Name : | | , | | |
| Name of the Course Faculty | | | | Faculty ID : | | |
| Exercise Number: 7 | | | | Date : | | |
| DAY TO DAY | EVALUATION | !: . | | | | |
| Marks | Aim / Preparation | Algorithm / Procedure | Source Code | Program Execution | Viva - Voce | Total |
| | | Performance in the Lab | Calculations and Graphs | Results and Error Analysis | | |
| Max. Marks | 4 | 4 | 4 | 4 | 4 | 20 |
| Obtained | 3 | Y | M | V | 4, | 19 |
| | | | | s | ignature | of Faculty |

START WRITING FROM HERE:

Methods of development

Parallel - line development

Aim: Draw the development of lateral systaces of a right square prism of edge of base 30 mm and height somm long.

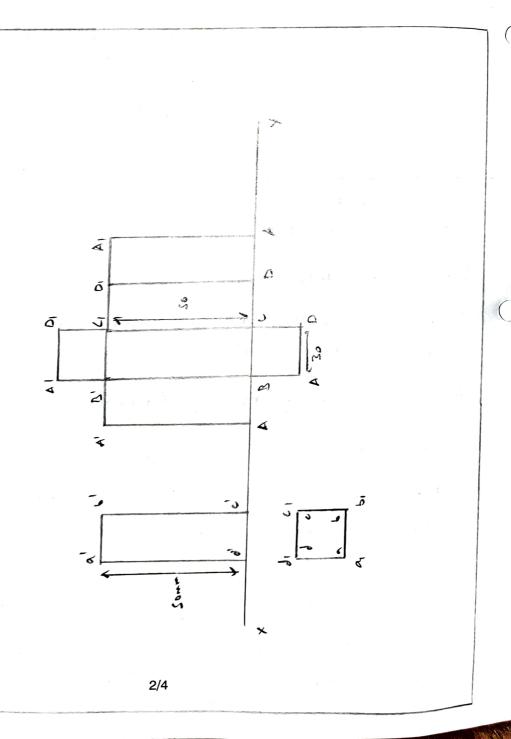
Apparatus: Laptop, mouse, Auto CAD

Procedure:

- 1. Draw a line x and y as the points without any measurement.
- 2. Draw a square under the XY-plane by using the polygon command with the edge as 4.
- 3. Square prism of edge at the 4 sides taken as some.
- 4. Then extend the lines up to xy plane and then draw a line somm from the xy 1/4 plane vertically.

ROLL NUMBER:

- 5. XY plane below is dimensioned as a, b, c,d then the same line and make it as rectangle a ner the points are q'b' c'd'.
- 6. Take any point of the x-y plane and draw a somm height and 30 mm edge rectangles.
- 7. Thre we should draw 4 rectangles with somm and 30 mm and for the second rectangle opposite sides 30 mm edge draw two squares.



b) Aim: Draw th development of the complete surface of a cylindrical down, diameter 15 49 mm and height is 60 mm.

Apparatus: Laptop, Mouse, Autocap.

Procedure:

- 1. Divide the circle in the top view into twelve equal parts.

 Project the division points to the front view and then draw the generators. Mark point a',b' and b', c' and c' etc. in which the generators are cun
- 2 Draw the development of the lateral surface of the whole cylinder along with the generators. The length of the limel-1 is equal to \$\pi \times D\$ (cricumference of the circle). This length can also determined approximately by supply off with a bow divider twelve divisions, each equal to the chord length ab (The length thus obtained is about 1% shorter than the exact length; but this is permitted in drawing book).
- 3. Draw a horizontal line through points a', b' anond b', etc. to cut the corresponding generators in points A,B and B, etc. Draw a smooth curve through the points thus obtained. The figure 1-A-A-1 is the required development.

