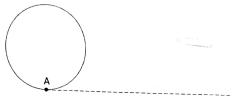
ES 101- Lab 5

Sem 1 2024-25 19th September 2024

Instructions: All dimensions are in mm unless otherwise specified. Follow all drawing rules and specifications discussed in the class. Do not use the pen on the drawing sheet.

Write your name, roll number, group number, lab number and other relevant details clearly in the title block in the upper-case letter. Drawing sheets with missing names, roll numbers, and lab numbers will not be graded.

Q 1. Draw the trajectory of the endpoint of a string as it unwinds clockwise around a circle of diameter 50 mm starting from point A till it meets the tangent drawn at A (shown in the figure below). Use geometric constructions to create all features, such as tangents and division of circles and lines. Divide the circle into 8 equal parts. (25 points)



Q 2. In the first angle projection, draw freehand sketches of the top view, front view, and right-side view of the following components. Indicate all features, including hidden lines, center lines, projection lines and other lines, as the case may be. There is no need to dimension the drawing. Geometric instruments must not be used. (25 points)

(a)

