MANJARA CHARITABLE TRUST
RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI
Department of Applied Sciences & Humanities

INTERNAL ASSESSMENT (IA) - I

Date: 20/2/25

Max. Marks:20 Duration:1.5Hr
Class: F. E. SEM -II
Name of the Course: Engineering Graphics
Branch: ALL

Instructions:
1. All Questions are compulsory
2. Figures to the right of the question indicate full marks.
3. Assume the suitable dimension wherever necessary.

Questions	Max Marks	Bloom's Taxonomy Level	Course Outcomes
Q1. A circular plate of diameter 60 mm rolls without slipping along a straight line inclined at 30° to horizontal. Draw locus of point of its contact with the line if it completes one rotation. Name the curve	6	3	CO1
Q2. A square pyramid side of base 40 mm and axis length 60 mm has one of its side of base in the HP. The axis of the solid is inclined to the HP at an angle 30°. **OR** Draw the projections of a regular hexagon of sides 30 mm , having one of its sides in the HP and inclined at 60^0 to VP , and its surface making an angle of 45^0 with the HP.	9	3	CO2 CO3
Q3. The top view and the front view of a line AB measures 70 mm and 58 mm respectively. The line AB is inclined at an angle of 35° to the HP. The end A is 15 mm above the HP and 12 mm in front of the VP. The other end B is also in the first quadrant. Draw the projections of line AB and find its true length and true inclination with the VP	5	3	CO2

RGIT FE-Sahyog