



RV Educational Institutions[®]
RV College of Engineering[®]

Autonomous
Institution Affiliated
to Visvesvaraya
Technological
University, Belagavi

Approved by AICTE,
New Delhi

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Academic year 2022-2023 (Odd Sem)

DEPARTMENT OF MECHANICAL ENGINEERING
CIE-1

Date	22 February 2023	Maximum Marks	50
Course Code	22MECG13	Duration	90 Minutes
Course Title	Computer Aided Engineering Graphics	Sem: 1	

Instruction: Answer all questions- Manual drawing only.

Q No.	Questions	M	BT	CO
1a.	Draw the projections of the following points on the same XY line, keeping convenient distance between each projector. Name the quadrants in which they lie. E - 30 mm below HP and 25 mm behind VP. F - 35 mm below HP and 30 mm in front of VP. G - on HP and 30 mm in front of VP. H - on HP and 35 mm behind VP.	10	2	1
1b.	The common point 40 mm below XY line represents not only the front views of three points A, B and C but also the top view of point C. The top view of point B lies on XY line and top view of point A lies 50 mm above it. Draw the projections of the points and add the right-side view of the point A only. Also state the quadrants in which the points lie.	10	2	1
2	A line AB measuring 70 mm has its end A 15 mm in front of VP and 20 mm above HP and the other end B 60 mm in front of VP and 50 mm above HP. Draw the projections of the line and find the inclinations of the line with the both the reference planes of projection.	15	3	2
3	A pentagonal lamina of edges 25 mm is resting on HP with one of its sides such that the surface makes an angle of 60°. with HP. The edge on which it rests is inclined at 45°. to VP. Draw its projections.	15	3	2

BT-Blooms Taxonomy, CO-Course Outcomes, M-Marks

Marks Distribution	Particulars		CO1	CO2	CO3	CO4	L1	L2	L3	L4	L5	L6
	T	Max Marks	20	30	-	-	-	20	30	-	-	-
