



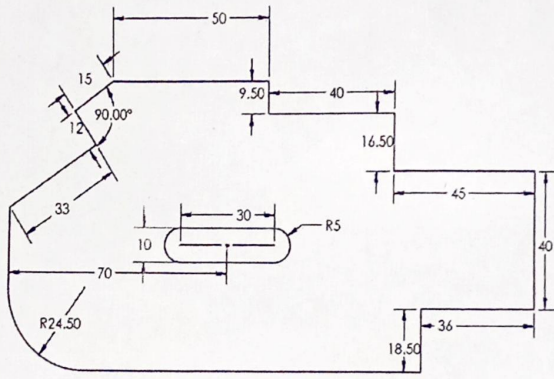
Continuous Assessment Test (CAT) – I AUGUST 2025

Programme	: B.Tech	Semester	: Fall 2025-26
Course Code & Course Title	: BAE00101 & Basic Engineering	Class Number	: CH2025260103249
Faculty	: Dr.Tamilselvan P	Slot	: C1+TC1
Duration	: 90 Minutes	Max. Mark	: 50

General Instructions:

- Write only your registration number on the question paper in the box provided and do not write other information
- Use of Geometry box/instrument box is permitted
- Use sharpened HB/2H pencils and clean erasers
- For drawings please orient your answer sheet to the Landscape mode and draw
- Use free hand sketches wherever specified
- All dimensions are in mm

Answer all questions

Q. No	Sub Sec.	Description	Marks
1		Reproduce the following figures and correct the dimensioning as per BIS 	10
2		Draw the Front view, top view and side view of the object shown in figure (using free hand sketching)	15

3		A hexagonal prism of base side 30 mm and height 75 mm is resting on HP on its base with one of its base edges parallel to VP. Draw its projections.	10
4	a	Explain the steps involved in the sand-casting process with a neat diagram. Discuss the advantages, limitations.	10
	b	Differentiate between hot rolling and cold rolling processes in manufacturing.	5
*****All the best *****			