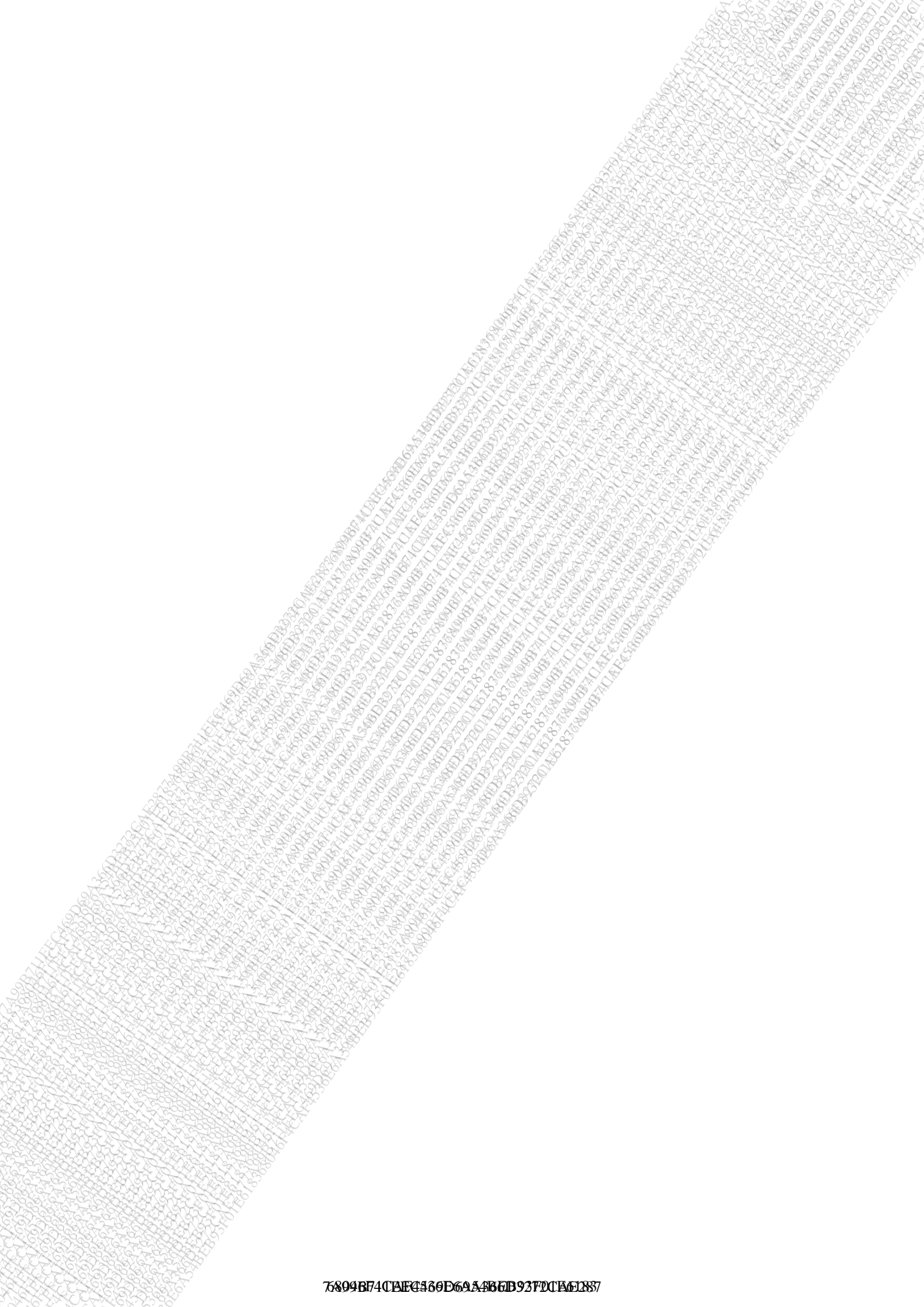


DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE**Regular End Semester Examination – Summer 2022****Course: M. Tech.****Branch : M.Tech. Mechanical Engineering****Semester : II****Subject Code & Name: ME XX 23B****CAD/CAE****Max Marks: 60****Date: 19/10/2022****Duration: 3 Hr.****Instructions to the Students:**

1. Each question carries 12 marks
2. Attempt any five questions from the following.
3. The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in () in front of the question.
4. Use of non-programmable scientific calculators is allowed.
5. Illustrate your answers with neat sketches, diagrams etc. Assume suitable data wherever necessary and mention it clearly.

		(CO)	Marks
Q. 1	Solve the following.		
A)	Define and Explain CSG technique with neat sketch.	CO1	6
B)	Explain B-Spline curve with neat sketch.	CO1	6
Q.2	Solve the following.		
A)	Enlist and Explain any one CAD data exchange formats.	CO2	6
B)	Explain OpenGL graphics library with examples.	CO2	6
Q. 3	Solve the following.		
A)	Enlist and Explain meshing topology with neat sketch.	CO2	6
B)	Explain data structure for meshing.	CO2	6
Q.4	Solve the following.		
A)	Explain modelling simulation for fluid flow equipment.	CO3	6
B)	Explain Simulation case study on Thermal problem with sketch	CO3	6
Q. 5	Solve the following.		
A)	Explain simulation steps for fluid flow with neat sketch.	CO4	6
B)	Explain multiphysics simulation steps for Stress analysis in CAE with neat sketch.	CO 5	6
Q. 6	Solve the following.		
A)	Explain multiphysics simulation steps for flow induced vibration with neat example.	CO 6	6
B)	Explain case study on flow induced vibration with Sketch.	CO 6	6
	*** End ***		



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