

ADMISSION NUMBER							

School of Engineering B.TECH Mechanical Engineering

Mid Term Examination - Nov 2023

Duration: 90 Minutes Max Marks: 50

Sem III - G3UB303B - Manufacturing Processes I

General Instructions Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

1)	How does the fluidity of molten metal impact the casting process?					
2)	Choose an appropriate welding process for joining two metal plates.					
3)	Classify the defects in sand casting based on their origin (mold, pattern, or pouring).	K2 (4)				
4)	How does oxyfuel gas welding work?					
5)	Explain the working principle of investment casting.					
6)	Compare SMAW and GMAW in terms of their applications.					
7)	Award marks to different casting defects based on their severity and impact on the final product.	K4 (8)				
8)	Explain the principle of explosive forming.	K4 (12)				
	OR					
	Extend the discussion on the advantages and limitations of friction welding.	K4 (12)				