

13 (a)	Utilize design features to enhance the efficiency and performance of milling cutters.	13	3	L3
OR				
13 (b)	Use the machining characteristics of shaped and slotted parts to optimize tool selection.	13	3	L3
14 (a)	Demonstrate the impact of thermal stress on weld joints and suggest mitigation solutions.	13	4	L3
OR				
14 (b)	Use the guidelines for Flash & Upset weldments to enhance weld quality and strength	13	4	L3
15 (a)	Assess DFM implementation in screws and rivets with a sketch.	13	5	L4
OR				
15 (b)	Analyze the design requirements for components in automatic assembly systems.	13	5	L4

PART- C (1x 15=15 Marks)
(Q.No.16 is compulsory)

Q.No.	Questions	Marks	CO	BL
16.	Evaluate the design considerations for arc welding, focusing on cost reduction, distortion minimization, and weld strength, and justify how these factors impact welding efficiency and quality in industrial applications.	15	4	5

