

	<ul style="list-style-type: none"> • Facing sand • Backing sand • System sand, and • Core sand 	
	c) What is a 'pattern'? Explain the advantages and limitations of plasters over plastics as pattern materials.	07
Q-4	Attempt all questions	
	a) Explain the principle of Arc welding.	03
	b) State the parameters affecting the arc in arc welding.	04
	c) Sketch the cupola furnace. Describe its construction and working.	07
Q-5	Attempt all questions	
	a) Sketch and label four positions of welding.	03
	b) Enlist the types of flame for gas welding and describe anyone with neat sketch.	04
	c) Classify the metal joining processes.	07
Q-6	Attempt all questions	
	a) State the advantages and limitations of forging process.	03
	b) Discuss the function of flux during welding. State the ingredients of flux.	04
	c) Explain the basic procedure in SAW with a neat sketch. What is "back up" in SAW?	07
Q-7	Attempt all questions	
	a) Explain the cutting operation for press working.	03
	b) Enlist types of super finishing processes. Discuss the selection criteria for appropriate super finishing process.	04
	c) What is a ceramic? List the commonly used ceramic matrix composites processing techniques. State the applications of ceramic matrix composites.	07
Q-8	Attempt all questions	
	a) Enlist the Plastic manufacturing processes.	03
	b) Distinguish between wire drawing and tube drawing with sketches.	04
	c) Discuss the defects, causes and remedies of forging defects	07

