		Duration: 3 Hours	Total Marks- 80
	2	1) First Question (Q.1) is Compulsory. 2) Attempt any 3 questions from the remaining questions. 3) Figures to the right indicate full marks. 4) Proportionate and labeled free-hand sketches would do.	September 1
Q1.	Write	a short note on (Any four)	20
(	(a) Type	es of Risers.	
(	(b) Hot	working process.	
(	(c) Hybi	rid Joining process.	
(	(d) Ther	moplastic plastic.	
(	(e) Inter	net of things (IoT) in manufacturing.	
Q2.		rite short note on broaching machine and compare of lapping a eration.	and honing 10
	(b) W	rite difference between arc welding and gas welding.	10
Q3.		hat are the five major steps in casting? Discuss casting defects uses and remedies.	with 10
	(b) Ex	splain various sheet metal operations with neat sketches.	10
Q4.	(a) Exp	plain various super finishing operations.	10
	(b) Ex	plain steps involved in powder metallurgy process.	10
Q5.	(a) De	scribe gear milling process.	10
	(b) Ex	plain polymer moulding techniques.	10
Q6.	(a) Wh	nat are different sheet metal operations? Explain briefly any tw	vo of them. 10
, ,	(b) Ex	plain cloud manufacturing.	10