Total Number of Pages : 01										B.Tech.				
		4 th Somestor Back Examination 2017 10									P	PCMT4204		
210	0	4 th Semester Back Examination 2017 ₂ 18 MATERIALS PROCESSING BRANCH: METTA, MME Time: 3 Hours Max Marks: 70 Q.CODE: C1112									210			
		Answer Que	estion N	ი 1 w	-				and a	anv five	e from	the rest	•	
210			ne figure	s in t	he rig	ht ha	ind n	nargii	n ind	-		210	•	2
Q1		Answer the	followin	g ques	stions	:							(2 x 10)	
	a)													
	b) c)	Draw the co			alloy &	pure	metal	.						
	d)	Why tapered	d sprue is						sprue	?				
210	e) f)	Define welda What are the	,	s of ris	er in th	ne cas	stina?	0		210		210		2
	g)	Describe the	difference	e betv	veen b	razing	g and	solde						
	h) i)	Name the ty Explain the p					veldin	g prod	esse	S.				
	j)	Write down t	•		_	•	netallu	urgy p	roces	S.				
Q2	a)	Discuss diffe	erent type	s of pa	attern a	allowa	nces	in det	ail wit	h suitab	le diagra	am.	(5)	
	b)	Describe the		-			e for r	nelting		iron.			(5)	
210 Q3	a)	Explain the	elements	of nati	na eve	tem 8	210 their		one v	210 vith sket	ches	210	(5)	2
Q.J	b)	Describe the		_	_ ,					vitir once	01100.		(5)	
Q4	a)	Write down										s the	(5)	
	b)	advantages In a given w			_				•	•		If the	(5)	
	ω,	welding spe											(0)	
210		Calculate the	e heat inp	ut. 21	0		210)		210		210		2
Q5	a)	What is Liqu	id phase	sinteri	ng? W	hat aı	e the	stage	s of li	iquid pha	ase sinte	ering?	(5)	
	b)	Explain the r Explain the							c of	compac	tion of	motal	(5)	
	IJ,	powders with						noces	5 01	Compac	dion of	metai	(3)	
Q 6	a)	Explain brief	lv the diff	erent o	casting	defe	cts &	their r	emed	ies.			(5)	
210		Write down the characte	the differ	ent me	ethods	of pr					/der? Di	scuss o	(5)	2
Q7	a) b)	Briefly explain the powder metallurgy process with a suitable block diagram. Describe the types of flames obtained in an oxy-acetylene welding with figure.											(5) (5)	
Q8	-1	Write short		any 1	rwo :								(5 x 2)	
04.0	a) b)	Centrifugal of Precision Inv	•	castino	a		047	n		010		010		0
210	c)	Submerged			3		210	J		210		210		2