	5162																
3	Ho	urs	/	10()]	Marks		Seat	No.								
	Instru	ctions	_	(1)	All	Question	is are	Comp	oulsor	y.							
				(2)		strate you essary.	ır ans	swers	with	nea	t sl	ketc	hes	wl	iere	ever	
				(3)	Fig	ures to th	ne rig	ht ind	icate	ful	l m	ark	S.				
				(4)	Ass	sume suita	able o	data, i	f nec	essa	ıry.						
				(5)	Co	bile Phon mmunicati amination	ion de	evices		-							
																Ma	rks
1.	1. a) Attempt any SIX of the following:										12						
		(i)	Writ	e na	me	s of diffe	rent t	ypes	of pa	tteri	1S.						
		(ii)	Expl work		_	rcing oper	ration	with	the r	neat	sk	etch	in in	pr	ess		
		(iii)	Expl	lain	thre	ead cutting	g ope	ration	on 1	athe	m	ach	ine.				
		(iv)	Enli	st di	ffer	ent forgin	ng op	eration	IS.								
		(v)	State	e dif	fere	ent types	of die	es in	press	wo	rki	ng	ope	rati	ons.		
		(vi)	State	e pri	nci	ple of rol	ling v	with a	neat	ske	etcł	1.					
		(vii)	Writ	e cl	assi	fication o	f diff	erent	types	of	dri	llin	g n	nacl	nine	es.	
		(viii)	Wha	it is	coı	re and co	re-pri	nts?									
	b)	Atte	mpt	any	TV	VO of the	e foll	owing	:								8
		(i)				ent types inkage all			ces p	orov	ide	d o	n p	atte	rn.		
		(ii)	Desc			aming and	d spot	t facin	ig op	erat	ion	S O	n d	rilli	ng		

(iii) Describe back-ward extrusion process with a neat sketch.

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		Ma	arks
2.		Attempt any FOUR of the following:	16
	a)	Explain four high roll mill with a neat sketch.	
	b)	Draw block diagram of die set components and label it.	
	c)	Draw the sketch of gating system of casting process and show all the parts on it.	
	d)	Explain blow moulding with a neat sketch.	
	e)	What is taper? Enlist different methods of taper turning and describe any one in brief.	
	f)	Write applications of rolling and forging operations.	
3.		Attempt any FOUR of the following:	16
	a)	Describe drawing operation in press working.	
	b)	Enlist different properties of moulding sand and describe collapsibility in brief.	
	c)	Draw a neat sketch of radial drilling machine.	
	d)	Differentiate between open die and closed die forging.	
	e)	Write classification of different types of lathe machines.	
	f)	Explain TIG welding with a neat sketch.	
4.		Attempt any FOUR of the following:	16
	a)	Describe upseting and fullering operations in forging.	
	b)	Explain with a neat sketch electron beam welding.	
	c)	State different types of press operations and explain any one with figure.	
	d)	Explain shell moulding process.	
	e)	Draw nomenclature of single point cutting tool.	
	f)	Write causes and remedies of blow hole defect in casting.	

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		Ma	arks
5.		Attempt any FOUR of the following:	16
	a)	Compare notching and lancing (any four points).	
	b)	With a neat sketch explain soldering process.	
	c)	What are different types of plastics and write useful properties	

- d) What is cutting speed and feed in case of lathe machine.
- e) Compare hot rolling and cold rolling.

of plastics.

Write classification of press machines. f)

Attempt any TWO of the following: **6.**

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- a) Write different welding defects and their causes in detail.
- Write different types of plastic moulding processes and explain extrusion moulding process with a neat sketch.
- Explain with a neat sketch, construction and working of cupola furnace.