P.T.O.

16117 3 Hour	rs /	10	0 Mark	ΚS	Seat No.								
Instructions	s: ((1)	All Question	ons are <i>co</i>	mpulsory.								
	((2)	Answer eac	ch next m	ain Question	on a 1	new p	age.					
	((3)	Illustrate ye	our answe	ers with neat s	ketch	nes w	herev	ver n	eces	sary.		
	((4)	Figures to	the right i	ndicate full m	arks.							
	((5)	Assume su	itable data	a, if necessary	.							
	((6)			ger and any issible in Exa				onic	Con	nmuı	nicat	ion
												M	arks
1. (A)	Ansv	Answer any THREE of the following:									12		
	(a)	De	fine cavity a	and core in	n an injection	mou	ld.						
	(b)	Wl	nat is a runn	er ? State	its four types	•							
	(c)	Ex	plain selecti	on criteria	a of split mou	ld.							
	(d)		aw a labelle	ed diagrar	n of an inject	tion n	nould	for	an e	exteri	nal tl	reac	led
(B)	Answer any ONE of the following:								06				
	(a)		aw a labelle olain its wor		n of semi-posi	tive t	ype c	of co	mpre	essioi	n mo	uld a	ınd
	(b)	Di	fferentiate b	etween tw	vo plate and tl	nree p	olate 1	moul	ds.				

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mould.

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2.	Answer any TWO of the following:								
	(a)	Witl	a labelled diagrams, explain the construction of tunnel gate and ring gate.						
	(b)		at is a split mould? Explain finger cam and dog-leg cam actuation-method diagrams.	ds					
	(c)	-	lain the construction and working of side core and side cavity with labelle rams.	ed					
3.	Answer any FOUR of the following:								
	(a)	Draw a labelled diagram for mould of internally threaded component.							
	(b)	Exp	lain the pitch circle layout system with a diagram.						
	(c)	Explain positive type of compression mould with a labelled diagram.							
	(d)	What is the necessity of a three plate mould?							
	(e)	Exp	lain different design aspects of three plate mould.						
4.	(A)	Ans	Answer any THREE of the following: 12						
		(a)	With a labelled diagram, explain the working of integral pot type transfermould.	er					
		(b)	Explain multicavity mould with different gating systems.						
		(c)	Describe the construction of flash type of compression mould with labelled diagram.	a					
		(d)	Explain spring actuation method in split type of injection mould.						
		(e)	What is an unscrewing mould ? Explain.						
	(B)	Ans	Answer any ONE of the following:						
		(a)	What is a location ring? State its purpose and its types.						
		(b)	Explain nickel plating method and polishing methods for an injection	n					

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5. Answer any TWO of the following: **16** (a) Explain auxiliary RAM type transfer mould with a labelled diagram. Explain about runner plate design in three plate mould. (b) Describe nitrating method and chrome plating method. (c) **6.** Answer any FOUR of the following: **16** Give the classification of mould materials. (a) (b) What is case hardening? Explain carburising treatment. Describe with a diagram, in line layout of impressions. (c) (d) Explain hydraulic actuation method for split mould with a diagram. Explain fan gate and an edge gate with labelled sketches. (e)

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