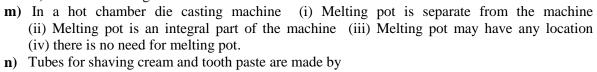
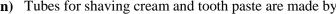
Enrolln	nent No:	Exam Seat No:		
	C.U.SHA	AH UNIVERSITY	Y	
	Summer	<b>Examination-2018</b>	I	
Subject	Name: Manufacturing Processes –	II		
Subject	Code: 4TE05MPR1	Branch: B.Tech (Automobi	ile, Mechanical)	
Semeste	er: 5 Date: 03/04/2018	Time: 10:30 To 01:30	Marks: 70	
Instructi	ions:			
	Use of Programmable calculator &	any other electronic instrument i	is prohibited.	
	Instructions written on main answer	•	r	
(3)	Draw neat diagrams and figures (if	necessary) at right places.		
(4)	Assume suitable data if needed.			
	Attempt the following questions:			<b>-</b> (14)
	Attempt the following questions.			(17)
۵)	Distantian allowance is not anavide	d in the fellowing shape of costi	m a	
a)	Distortion allowance is not provide i). U ii). T iii).		ng.	
<b>b</b> )	The plastic region of the stress-stra	*	zed by a	
•	proportional relationship between s			
c)	$\mathcal{E}$			
.1\	i). cope ii). drag	iii). cheek iv). flange		
	Cast iron is a ferrous alloy with up Ornaments, toys and statue of low		h of the following method?	
e)	i). Permanent mould casting	ii). Semi permanent mould	9	
	casting iv). Die casting			
f)	The temperature at which the new g	_		
	i). Lower critical temperature ii). U		itectic temperature	
~)	iv). Recrystallisation temperature. Petrol engine cylinder are made by			
g)	• •	). Plaster mould casting	iii). Investment casting	
	iv). Centrifugal casting	, Truster moure custing	m). myesiment easing	
h)	Of the three polymer types,		important commercially?	
-		iii) elastomers.		
i)	Which of the following processes			
	one)? i) blow molding ii)co iv)thermoforming v)transfer mold		reaction injection molding	
<b>j</b> )	The metals having good weldability			
<b>J</b> /	i). cast steel, iron, carbon steel, cas	•	eel, iron, cast steel, cast iron	
	iii). iron, carbon steel, cast steel, cast iron iv). cast iron, iron, carbon steel, cast steel			
<b>k</b> )				
	air craft industries? i) Shield me	etal arc welding 11) Gas tungst	en arc welding 111) Thermit	
1)	welding iv) Resistance welding. Heat is created by chemical reaction	n in		
1)	•	. Oxy-acetylene welding	iii). Tungsten arc welding	





iv). Thermit welding

Q-1



Q-2		Attempt all questions	
	a)	Write a short note on nanoscale manufacturing with suitable example.	07
	b)	Define Master pattern. How size of Master pattern is represented mathematically?	07
Q-3		Attempt all questions	
	a)	Describe carbon dioxide moulding representing the chemical reaction of the moulding.	07
	<b>b</b> )	What is a riser? What is meant by the term "risering"? Discuss with examples.	07
Q-4		Attempt all questions	
	a)	What is Cupola? How is the Thermal efficiency of a Cupola determined?	07
	b)	Describe with neat sketch: a) Orbital forging b) Rotary swaying	07
Q-5		Attempt all questions	
	a)	Describe the working of pressure regulators in welding	07
	b)	Describe the CO <sub>2</sub> MIG welding method with its advantages, disadvantages & applications.	07
Q-6		Attempt all questions	
	a)	Describe the process of hot extrusion of tubes.	07
	<b>b</b> )	What are the principles of operation of resistance welding? Describe its types.	07
Q-7		Attempt all questions	
•	a)	What are foamed plastics? How foaming is done? Describe.	07
	b)	What is the function of padding & chills? State their effects.	07
Q-8		Attempt all questions	
-	a)	Explain the LIGA micro fabrication process.	07
	b)	Write a technical note on micromachining of MEMS devices.	07

