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			Reg. No. :	
			Question Paper Code: 20805	
	B.E.	/B.Te	h. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.	
			Third/Fifth Semester	
			Mechanical Engineering	
			ME 6302 – MANUFACTURING TECHNOLOGY – I	
(Cor			echanical Engineering (Sandwich)/Industrial Engineering/Indust ng and Management/Mechanical and Automation Engineering)	rial
			(Regulations 2013)	
(Ale			o: PTME 6302 – Manufacturing Technology – I for B.E. (Part-Tird Semester – Mechanical Engineering – Regulations – 2014)	ne)
Tim	e:Th	ree ho	urs Maximum: 100 ma	ırks
			Answer ALL questions.	
			PART A — (10 × 2 = 20 marks)	
1.	List	any f	our characteristics desired for cores in sand moulding process.	
2.			eant by carbon dioxide moulding?	
3.	Defi	ne we	lding process.	
4.	Wha	at do y	ou understand by soldering?	
5.	Dist	ingui	sh between forward hot extrusion and backward hot extrusion.	
6.	Wha	at are	the types of roll passes?	
7.	Wha	at is s	aper plastic forming?	
8.	Defi	ne sp	ring-back effect.	
9.			thermoplastics? Give examples.	
10.	Wha	at is fi	lm blowing process?	
			PART B — (5 × 13 = 65 marks)	
11.	(a)	(i)	Enumerate any three types of pattern allowances.	(6)
		(ii)	Explain the constructional features of cupola furnace with diagram.	neat (7)
			Or	
	(b)	(i) (ii)	Describe the ceramic mould casting process.  Explain with neat schematic true centrifugal casting process.	(7) (6)

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		<ol> <li>Explain the types of flame with its characteristics used in welding.</li> </ol>	(6)
		(ii) Describe with sketches gas metal arc welding process.	(7)
		Or	
	(b)	(i) Explain electroslag welding process with necessary diagram.	(7)
	1.0	(ii) Describe thermit welding process.	(7)
13.	(a)	(i) Compare hot working and cold working of metals.	(6)
		(ii) Explain impression die forging process.	(7)
		Or	
	(b)	(i) Explain any four rolling defects.	(8)
		(ii) Explain the principle of tube drawing process.	(5)
	2000		
14.	(a)	(i) Discuss the characteristics to be considered in sheet metal form	
		(ii) Explain shearing operations in detail.	(5)
		Or	
	(L)		
	(b)	<ul><li>(i) Describe hydroforming process with its applications.</li><li>(ii) With neat schematic explain explosive forming process.</li></ul>	(7)
	*		(6)
15.	(a)	<ol> <li>Explain the injection moulding process with reciprocating scree up.</li> </ol>	
		(ii) Describe compression molding process.	(7)
		Or	
	(b)		(5)
	(0)	Explain vacuum thermoforming process.     Describe the blow molding process.	(7)
		PART C — (1 × 15 = 15 marks)	
16.	(a)	Enumerate the step by step procedure involved in investment ca process. State its advantages and limitations.	sting (15)
			(10)
	4.5	Or	
	(b)	Explain the constructional features and working of electron l welding process.	neam (15)
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