## Sem-III Production Process-I/MECH/09-12-15



(3 Hours)

[Total Marks: 80

QP Code: **5199** 

N.	B.:	(1) Question no. 1 is compulsory	
		(2) Attempt any three questions out of remaining five questions.	
		(3) Figures to the right indicate full marks.	
		(4) Assume suitable data wherever necessary.	
		(5) Notations carry usual meaning.	
		(3) Indiations carry usual incaming.	
1	(0)	Eveloin vanious valding defeata with their equate and remadical	ıΛ
1.	200	Explain various welding defects with their causes and remedies.	U
		Differentiate between soldering and brazing.	-
	(c)	Compare transfer molding and compression molding.	)
2	(-)	A solinding lained in to be decimand for a condensting and The size of steel	10
.2.	(a)		10
		casting is 7.5 cmx 12.5 em X 2cm. The previous observation have indicated that the	
		total solidification time for casting is 96 sec.	
		The cylinder riser have (d/h) = I. Find the size of riser so that its solidification	
		Time is 120 sec.	- 12
	(b)	Discuss friction welding with its applications	5
	(c)	Differentiate between open and closed die forging.	5
	, ,		
3.	(a)	Discuss various rolling defects.	6
		Differentiate between core and core print.	6
		With a neat sketch explain resistance welding process giving its applications	g.
	(0)	with a fical sketch explain resistance werding process giving its applications	J
4	(a)	Write advantages and dis advantages of powder metallurgy.	6
	1.4	With a neat sketch explain swaging process.	6
		What are the different NTD methods? Explain any two methods in detail.	Q
	(0)	what are the different to Themous! Explain any two methods in detail.	3
5.	(a)	Explain the screw type injection moulding with neat sketch. Discuss its advantages,	8
	(4)	limitations and applications.	
	(b)		6
		Discuss different methods of making powder in powder Metallurgy	0
	(c)	Explain different gas welding equipments	6
6	Wr	te short note on	20
		(i) Pattern allowances	<b>~</b> ()
		(ii) Casting defects	
		(iii) Thermit welding	
		(iv) Thread rolling	#1