## Mechanical/Automobile

Sem-III / Production Process-I /08-12-14

QP Code :14632

[3 Hours]

[ Total Marks: 80

N.B.		estion No. 1 is compulsory.	1
12	(2) Atte	empt any three questions from Q.No 2 to Q. No. 6.	
	(3) All	questions carry equal marks.	
1.	Attempt	the following questions:—	
**	(a)		5
		What is meant by blending and compacting in powder metallurgy?	5
	(c)	Compare transfer moulding and compression moulding processes.	
	(d)	State the function of a riser.	5
2.		the following question:—	5
	(a)	What is the difference between a core and a core print?	5
		What are the typical application areas of powder metallurgy process?	
	(c)		5
	(4)	labeled sketch.	5
	(d)	Describe MPT process with a neat labelled sketch.	5
3.	Attempt	the following questions:—	
	(a)	www	5
32.75		state welding processes. Draw a neat labelled sketch of	
		solid state welding processes	
	4 6	What is meant by sintering?	5
		Describe lamination process for plastics with a neat labelled sketch	5
	(d)	What is meant by forging? Differentiate between closed die forging	5
		and open die forging.	
4	Attempt	the follwoing questions:-	
		Draw neat labelled sketches of the various types of cores used in	5
	(-)	sand casting?	
	(b)	What is meant by a riser? State the functions of a riser.	5
	(c)	What are the limitations of powder metallurgy processes over other	5
		competing processes?	
	(d)	Describe calendering process for plastics with a neat labelled sketch.	5
5.	Attempt	the following questions:-	
		Differentiate between MIG welding and TIG welding.	5
		What are the advantages of using a metal pattern?	5
	(c)	What is blending and compacting in powder metallurgy?	5 5 5 5
	(d)	Describe Ultrasonic Testing process with a neat labelled sketch.	5
6.	(a)	What is the effect of cold working of metal.	5
1	(b)		5
0		Draw a neat labelled sketch to support this.	
The	(c)	Describe resistance seam welding process with a neat labelled sketch.	5
	(d)	Different between direct extrusion and indirect extrusion. Also	5
		draw a neat labelled sketch of both of them.	

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