Q.P. Code: 4782

## SEIII (CBES | MECH / Boduction Brocess - I / 01-06-15

		(3 Hours) [Total Marks	:80
N.I		<ol> <li>Questions one compulsory</li> <li>Solve any three questions from the remaining.</li> <li>Figure to the eight indicates full marks.</li> </ol>	
1.	(a)	Explain Pattren allowances.	5
		Explain Rolling defects.	5
	(c)	Define the following terms used in welding.  (i) Welded Joint (ii) Overhead welding (iii) edge preparation (iv) slag (v) Flux.	5
	(d)	How is a rod male by extrusion?	5
2.	(a)	Differentiate the following:  (i) Patterns and core boxes.	10
	4.	(ii) Wing core and Hanging type of cores.	
	(b)	Write short notes on:  (i) Pattern allowances  (ii) Types of cores	10
3.	(a)	Explain planetary and cluster rolling mills with neat sketcnes.	5
		Explain rotary swaging with its sketch?	10
	(c)	Write short note on: Metal Extrusion.	5
4.	(a)	Compare TLG and MIG welding Processes?	10
	(b)	Discuss laser beam welding along with its advantages and disadvantages.	10
5.	(a)	How are porous bearings Manfactured? List the a advantages and applications of such bearings	s 10
	(b)	Explain advantages and disadvantages powder Metallurgy.	5
	(c)	Write the explanatory note on: sintering prosess in Powder Metallurgy?	5
6	(a)	List the different NDT methods? Explain ultrasonic process Method of inspection?	f 8
		Explain with neat sketch. "Radiographic Non-Destructione test:"	7
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