Mechanical/Automobile

MECH

SEI III (BES | MECH / Boduction Bocess - I / 01-06-15



Q.P. Code: 4782

		(3 Hours) Total Marks	. 0
N.I	3. :	(1) Questions one compulsory	
		(2) Solve any three questions from the remaining.	
		(3) Figure to the eight indicates full marks.	
1.	, ,	Explain Pattren allowances.	5
		Explain Rolling defects.	5
	(c)	Define the following terms used in welding.	5
		(i) Welded Joint (ii) Overhead welding	
	(4)	(iii) edge preparation (iv) slag (v) Fun. How is a rod male by extrusion?	5
	(4)	Thow is a rod male by exitusion:	Э
2.	(a)	Differentiate the following:	10
	, .	(i) Patterns and core boxes.	
		(ii) Wing core and Hanging type of cores.	
	(b)	Write short notes on:	10
		(i) Pattern allowances	
		(ii) Types of cores	
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
		Discuss laser beam welding along with its advantages and disadvantages.	
5.	(a	How are porous bearings Manfactured? List the a advantages and application	3 10
	(h.	of such bearings	
		Explain advantages and disadvantages powder Metallurgy. Write the explanatory note on: sintering process in Powder Metallurgy?	5
	(0	y write the exploitatory note on sintering prosess in Fowder Metantingy:	3
6	(a) List the different NDT methods? Explain ultrasonic process Method o	ſ į
		inspection?	5
	_	Explain with neat sketch. "Radiographic Non-Destructione test:"	7

JP-Con. 11365-15.