Total	No	o. of Questions : 6] SFAT No .	٦		
		SEAT NO.]		
P195		[Total No. of Pages : BE/INSEM/APR-523	<i>Z</i>		
B.E. (Mechanical Engg.) 402050A: ADVANCED MANUFACTURING PROCESSES					
(2015 Pattern) (Semester - II) (Elective - IV)					
Time	2:	1 Hour] [Max. Marks: 3	0		
Instructions to the candidates:					
	1)	All questions are compulsory.			
	<i>2</i>)	Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.			
	<i>3</i>)				
	<i>4</i>)	Figures to the right indicate full marks.			
Q 1)	a)	Explain principle, working & applications of Hydroforming process wit	h		
~ /		neat sketch. [6			
	b)	List various micro forming processes. Explain micro bending process	S		
	0)	with line diagram. [4			
		OR OR	_		
Q2)	a)				
	b)		<u>y</u> . ′		
		Why this process is not used commercially in industries.]		
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Q 3)	a)	Explain working of friction stir welding (FSW) process with neat sketch	l.		
		What are various process parameters in this process? [6]		
	b)	Write down 'two advantages and limitations' of 'ERW' & 'LBW	r ,		
		processes. [4]		
		OR CONTRACTOR OF THE PROPERTY			
Q4)	a)	Explain principle, working & applications of Ultrasonic welding process	2.		
Σ ⁷)	u)	with neat sketch.			
	b)				
	U)	Explain in dotain. Thermal oping Coating with heat sketch.	ı,T		

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Q 3) a)	Write down its applications.	neat sketch. [6]
b)	Write down working principle of Shaped Tube Electrolytic	
	(STEM) with line diagram.	[4]
	OR	
Q6) a)	Write short notes on:	[6]
	i) Electrochemical Grinding (ECG)	
1 \	ii) Electrochemical Deburring (ECD)	
b)	Explain 'Wire electric discharge machining' in detail with its a	pplications. [4]
		17]
	HHH 9.1/8.1/6.1/8.	
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