<b>Total</b>	No.	of	Questions	:	<b>6</b> ]
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<b>SEAT No.:</b>	
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## BE/Insem/APR-173

## B.E. (Mechanical Engineering) ADVANCED MANUFACTURING PROCESSES

(2015 Pattern) (Semester - I) (Elective - IV)

		(2013 l'attern) (Semester - 1) (Elective - 1v)
Time	:1	Hour] [Max. Marks : 30
Instr	uct	ions 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> )	Neat diagrams must be drawn wherever necessary.
	4)	Figures to the right indicate full marks.
<b>Q</b> 1)	a)	List the types of explosive forming processes. Explain the working o
		unconfined explosive forming process with neat sketch? [6]
	b)	Draw sketch of electromagnetic forming and writes its applications. [4]
		OR
<i>Q2</i> )	a)	Explain the factor affecting spinning process with neat sketch also list the application of shear spinning?  [6]
	b)	Explain working principle of High Energy Rate forming with sketch?[4
<b>Q</b> 3)	a)	Explain working of friction stir welding process with various temperature zones. [6]
	b)	Explain the process parameter of Electron Beam welding process. OR
<b>Q4</b> )	a)	Explain working of Laser beam welding process with neat sketch. [6]
	b)	What are the various challenges in underwater welding process? [4
<b>Q</b> 5)	a)	Explain working of Abrasive flow finishing process with neat sketch.[6
	b)	Write short note on safety precautions in Laser based Heat Treatment.[4 OR
<b>Q6</b> )	a)	Explain working principle of Electrochemical discharge Machining with
		neat sketch. [6
	b)	Explain the basic principle of Electrolytic machining. [4
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