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BIME-009

B.Tech. - VIEP - MECHANICAL ENGINEERING (BTMEVI)

Term-End Examination June, 2016

00378

Tin	ne: 3 hours Maximum Marks:	Maximum Marks : 70		
Note: Answer any seven questions. All questions carry equal marks.				
1.	What are the special casting techniques? Explain the process of semi-centrifugal casting and give its applications.	10		
2.	What is meant by grain fineness number? Explain the procedure for determining this number for a moulding sand.	10		
3.	Explain the process of ultrasonic welding with a neat sketch. Also give its advantages and disadvantages.	10		
4.	What are the common defects of casting? State their causes and remedies.	10		

5.		scribe the process of hot spinning and cold nning. Also give their advantages and specific s.	10	
6.	Draw a neat sketch of die-punch assembly with accessories. Also, explain how cutting operations such as blanking or piercing differ from deep drawing.			
7.		at is recrystallisation temperature? singuish between hot working and cold king with respect to this temperature.	10	
8.	Explain with a neat sketch the electro-hydraulic forming process. Also give its applications and limitations.			
9.		fly explain any one plastic moulding process a neat sketch.	10	
10.		te short notes on any four of the wing: $4 \times 2 \frac{1}{2}$	=10	
	(a)	Shell Moulding Process		
	(b)	Spatter		
	(c)	•		
	(d)	Blanking		
	(e)	CO ₂ Moulding		
	(f)	Thermosetting Plastics		