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BIME-009

B.Tech. MECHANICAL ENGINEERING (BTMEVI)

01185

Term-End Examination June, 2012

BIME-009: PRODUCTION TECHNOLOGY - I

Time: 3 Hours Maximum Marks: 70

Note: Attempt any seven questions. All the questions are to be answered in English language only.

- 1. What are the main characteristics which a good 10 moulding sand should possess? How these characteristics influence the performance of moulding sand during moulding and casting.
- 2. What are the functions of pattern? How are the patterns classified? Discuss any two types of patterns.
- 3. What do you understand by Gas welding? 10 Describe in brief the equipment required for oxy-acetylene gas welding.
- 4. Explain the process of soldering and brazing. 10

5.	Discuss the following methods of hot working process:						
	(a)	Rolling	(b)	Forging.			
6.	Sketo		ribe tl	ne different types of rolling	10		
7.	Define the following terms in cold working of netals:						
	Drawing, Shearing, Blanking, Bending, and Spining.						
8.	Explain the Wire Drawing Process in detail. 10						
9.	Discuss Magnetic Pulse Forming Process in detail. 10						
10.	Write short notes on <i>any two</i> of the following: $2x5=10$						
	(a)	Gas flame welding.	es use	ed in oxy - acetelyne gas	-10		
	(b)	Defects in	castir	ngs.			
	(c)	Thermit w	eldin	S.			