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**B.Tech. MECHANICAL ENGINEERING  
(BTMEVI)**

**Term-End Examination**

**December, 2011**

**BIME-009 : PRODUCTION TECHNOLOGY - I**

*Time : 3 hours*

*Maximum Marks : 70*

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

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1. Discuss the various types of moulding sand. 10
2. Discuss the different allowances provided on pattern. 10
3. What is resistance welding? Give its classification. 10  
Describe with the help of a neat sketch the principle of spot welding?
4. Describe the method of metallic arc welding. 10
5. (a) What are the advantages and limitations of hot rolling? 5  
(b) Briefly describe backward extrusion process. 5

6. What principle is involved in hot rolling? Explain. 10
7. Define the following terms in cold working of metals : 10  
Drawing, Shearing, Blanking, Bending, and Spinning.
8. Explain the stretch forming process in detail. 10
9. Discuss in detail, High Velocity Forming (HVF) of metals process. 10
10. Write short notes on *any two* of the followings :  $2 \times 5 = 10$   
(a) Thermit welding  
(b) Soldering and Brazing  
(c) Wire drawing
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