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**BIME-009**

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

**Term-End Examination**

00831

**December, 2016**

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

*Time : 3 hours*

*Maximum Marks : 70*

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*Note : Answer any five questions. All questions carry equal marks.*

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1. (a) What are the types of moulding sands ? Briefly explain the properties of moulding sand. 7
- (b) What is a Master Pattern ? Briefly explain pattern allowances with neat sketch. 7
2. (a) Describe the working principle of Resistance welding. List out the common defects of welding. 7
- (b) Explain the centrifugal casting with neat sketch. State its advantages. 7
3. (a) Why is press forging preferred over hammer forging process ? List out the advantages of forging process. 7

- (b) Explain the different types of flames in Oxy-Acetylene welding with neat sketch and list their specific uses. 7
4. (a) What do you mean by forgeability ? Explain the upset forging with neat sketch. 7
- (b) What are the forging defects ? How can they be detected and rectified ? Discuss. 7
5. (a) What are the different types of extrusion processes ? Explain any one method with a neat sketch. 7
- (b) Explain the wire drawing process with neat sketch. List out the specific uses. 7
6. (a) Explain the cold spinning process with neat sketch. List out its applications. 7
- (b) What are the different types of plastic moulding process ? Explain the blow moulding process with neat sketch. 7
7. Write short notes of any *four* of the following :  $4 \times 3 \frac{1}{2} = 14$
- (a) Explosive Forming
- (b) Blanking
- (c) Rolling
- (d) Brazing
- (e) Deep Forming
- (f) Thermochemical Welding