# 70981

No. of Printed Pages : 2

## **B.Tech. – VIEP – MECHANICAL ENGINEERING** (BTMEVI)

### Term-End Examination

#### December, 2015

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

Time : 3 hours

Maximum Marks: 70

- **Note:** Answer any seven questions. All questions carry equal marks.
- What do you mean by green sand ? Briefly 1. explain the properties of green sand. Explain the functions of runner, riser and gate with the help of neat sketches.
- Discuss with the help of neat sketches, the 2. different allowances that are provided on pattern. Explain split pattern with a neat sketch. 10
- Explain the principles of resistance welding. 3. Describe spot and seam welding. 10
- Describe the method of oxy-acetylene welding 4. with a neat sketch. Also list out the different types of flames produced in oxy-acetylene welding.

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**BIME-009** 

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	Why is press forging always perferred over hammer forging process ? Explain. Also list out	
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6.	Explain the working of impact extrusion process with a neat sketch and give its applications.	10
7.	Explain the wire drawing operation with a neat sketch. Discuss its advantages and applications.	10
8.	(a) Discuss the shear spinning process and give its applications.	5
	(b) Explain the stretch forming process in detail.	5
9.	Explain the working of mechanical high velocity forming process with a neat sketch.	10
10.	Write short notes on any <i>four</i> of the following : $4 \times 2\frac{1}{2} =$ (a) Bending	:10

- (b) Soldering
- (c) Defects in castings
- (d) Cores
- (e) Forging defects
- (f) Thermosetting plastics

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