B.Tech. MECHANICAL ENGINEERING (BTMEVI)

Term-End Examination December, 2013

BIME-009: PRODUCTION TECHNOLOGY-I

Time	: 3 hours	Maximum Marks : 70
Note	: Attempt any Seven question be answered in english only. marks.	•
1.	What do you mean by green sa the properties of green sand. E of runner, sprue and gate with	xplain the functions
2.	What is master pattern? Bridallowances with neat sketch pattern and gated pattern.	, , ,
3.	With a neat sketch, explain casting, its advantages and disuses.	•
4.	Briefly explain with neat sketcl (a) Gas flames and their sp	0

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(b) Gas cutting

- With a neat sketch, explain shielded metal arc welding. What are the common defects in welding? Also, discuss the advantages of flux coating on electrodes.
- 6. What do you mean by forgeability? Briefly explain forging operations. With neat sketches explain upset forging.
- 7. With a neat sketch, explain cold spinning and its applications.
- 8. Describe the various rolls used in rolling process. 10 Briefly explain hot rolling.
- 9. What are the different plastic moulding processes? With a neat sketch explain blow moulding.
- **10.** Write short notes on *any four* of the following:
 - (i) High velocity forming

 $2\frac{1}{2}x4 = 10$

- (ii) Wire drawing
- (iii) Casting defects
- (iv) Thermo setting plastics
- (v) Hydrostatic extrusion
- (vi) Brazing
- (vii) Blanking