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# Question Paper Code: 72137

## B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2017.

Third/Fifth Semester

Mechanical Engineering

#### ME 6302 — MANUFACTURING TECHNOLOGY - I

(Common to Mechanical Engineering (Sandwich), Industrial Engineering, Industrial Engineering and Management, Mechanical and Automation Engineering)

(Regulations 2013)

Time: Three hours

Maximum: 100 marks

#### Answer ALL questions.

### PART A — $(10 \times 2 = 20 \text{ marks})$

- 1. What is meant by permanent mould casting?
- 2. What is the cause of the casting defect called" Hot tear"?
- 3. Sketch an Oxidizing flame in Oxy acetylene gas welding.
- 4. What are the two types of Plasma arc welding?
- 5. How can you reduce the "roll force" in a roiling process?
- 6. Differentiate between hot and cold forging?
- 7. What are the two most common shearing operations?
- 8. What is meant by Spring back in sheet metal work?
- 9. Define Thermo forming process?
- 10. Mention any two applications of Blow moulding process?

PART B — 
$$(5 \times 13 = 65 \text{ marks})$$

11. (a) With neat sketches, explain the sand casting process.

(13)

Or

(b) With a neat sketch, explain the principle of the Investment casting process. (13)

