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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 bours

Maximum: 100 marks

Answer ALL questions.

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

- 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?
- 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  $\leftarrow$  (5 × 13 = 65 marks)

11. (a) With neat sketches, explain the sand casting process. (13)

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

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