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**B.E / B.Tech. (Full Time) DEGREE EXAMINATION, NOV/ DEC 2012**

**Fourth Semester**

**Manufacturing Engineering**

**MF 9251 MANUFACTURING PROCESSES - I I**

Time: 3 Hours

Maximum: 100 Marks

**Answer ALL questions**

**PART A - (10 X 2 = 20 marks)**

1. List out various pattern allowances.
2. Why is aluminium preferred to be done by cold chamber die casting process with that of hot chamber die casting?
3. Distinguish between direct and indirect extrusion.
4. What is spring back in sheet metal forming?
5. What is an arc blow?
6. Distinguish between soldering and brazing.
7. What is the difference between a positive mould and a negative mould in thermoforming?
8. What is calendaring and why is it used?
9. What are the different dielectric media used in EDM process?
10. State any four applications of LBM.

**PART B -- ( 5X16=80 Marks )**

- 11 i) Enumerate with neat sketch the principle of reciprocating screw injection moulding process. State its advantages and applications (10)  
ii) What are laminated plastics? Name its advantages. (6)
- 12 a i) Explain various steps involved in core making process. (8)  
ii) Enumerate with neat sketch the working of cupola furnace. (8)

(Or)

12 b i) Enumerate any four moulding tools used in casting process. (8)

ii) Explain with neat sketch principle of gravity die casting process. (8)

13 a i) Describe any four forging operations. (8)

ii) Distinguish between wire drawing and tube drawing with sketches. (8)

(Or)

13b) Write short notes on

i) spinning (5)

ii) stretch forming (5)

iii) super plastic forming (6)

14 a i) Explain with neat sketch the components of oxy-acetylene gas welding equipment. (8)

ii) Enumerate with neat sketch the principle and cycle of operation of a resistance seam welding process. (8)

(Or)

14b i) Discuss briefly various arc welding consumables. (8)

ii) Describe causes and remedies for any four defects in welding. (8)

15a i) Explain stand off and contact operation of explosive forming process. (8)

ii) Describe with neat sketch the principle of ultrasonic machining process. (8)

(Or)

15 b i) Describe with neat schematic diagram principle of water Jet machining. (8)

ii) ) Enumerate with neat block diagram principle of electro-hydraulic forming process. (8)