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**B.E / B.Tech DEGREE END SEMESTER EXAMINATIONS, April / May 2014**

**MANUFACTURING ENGINEERING BRANCH**

**IV Semester**

**MN 273 MANUFACTURING PROCESSES - I /  
MF 9251 MANUFACTURING PROCESSES - II**

**(REGULATIONS 2004 / 2008)**

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

**PART-A (10 x 2 = 20 Marks)**

1. What are the requirements of pattern materials?
2. What is meant by inoculation?
3. State any four forging operations.
4. Distinguish between direct and indirect extrusion.
5. State any two solder alloy.
6. What are the four steps in making adhesive bonding?
7. Distinguish between thermoplastics and thermosetting plastics.
8. What is meant by film blowing?
9. State the need for unconventional machining methods.
10. What is the principle of ECM?

**PART B – ( 5X16=80 Marks )**

- 11 i) Describe with neat sketches various steps in rotational moulding. (8)
- ii) Enumerate with neat sketches the principle of transfer moulding. (8)
- 12 a i) What is meant by pattern allowances? Enumerate any three of them. (8)
- ii) List out various types of cores. Discuss any two. (8)

(Or)

- 12 b i) Enumerate with neat sketches various steps in shell moulding. (8)  
ii) Explain with neat sketch principle of gravity die casting process. (8)

- 13 a i) Describe with neat sketches different types of rolling mills. (8)  
ii) Distinguish between wire drawing and tube drawing with sketches. (8)

(Or)

- 13 b) Write short notes on  
i) spinning (5)  
ii) stretch forming (5)  
iii) super plastic forming (6)

- 14 a i) Describe with neat sketch the principle of resistance brazing. (8)  
ii) Enumerate with neat sketches the components of oxy-acetylene gas welding equipment. (8)

(Or)

- 14 b i) Explain with neat schematic diagrams various steps in resistance welding process. (8)  
ii) List out various defects that are generally found in welding. Describe any four defects. (8)

- 15 a i) Enumerate with neat schematic diagram principle of USM. (8)  
ii) Describe with neat sketch principle of EDM. (8)

(Or)

- 15 b i) Explain with neat sketch principle of LBM. (8)  
ii) Enumerate with neat sketch the principle of explosive forming. (8)