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MANIPAL INSTITUTE OF TECHNOLOGY
Manipal University, Manipal – 576 104

III SEM. B.E. (MECHANICAL ENGG.) DEGREE END SEMESTER (SUMMER / MAKE- UP) EXAMINATIONS JULY 2008

SUBJECT: PRODUCTION TECHNIQUES (MEE-209)
REVISED CREDIT SYSTEM
(28/07/ 2008)

Time: 3 Hours. MAX.MARKS: 50

Instructions to Candidates:
- Answer **ANY FIVE FULL** questions.
- Draw sketches wherever necessary using pencils only.

1A) Explain with sketch permeability test conducted on moulding sand. (04)

1B) Draw the labeled sketch of cupola and identify the zones. (06)

2A) Explain the steps involved in casting process which is used for mass production of small intricate components. (05)

2B) Explain the submerged arc welding process highlighting the process parameters and applications. (05)

3A) Differentiate between hot working, cold working and warm working. (05)

3B) Explain the atomic hydrogen arc welding process highlighting the process parameters and advantages. (05)

4A) Explain with the graph spring back effect and mention the methods to compensate it. (04)

4B) Explain the following i) Piercing ii) Stretch forming iii) Embossing (06)

5A) Explain the technique used to manufacture a simple washer in a single stroke. (06)

5B) Explain the method of cold extrusion with a sketch. (04)

6. Write short notes on the following
   a) Tube drawing
   b) Planetary rolling mill
   c) Liquid penetrant test
   d) Ultrasonic testing (10)

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