

Code: R7210301

**R7**

B.Tech II Year I Semester (R07) Supplementary Examinations, May 2013

**PRODUCTION TECHNOLOGY**  
(Mechanical Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) What are different elements in a typical gating system?  
(b) What is the significance of shrinkage in the production of castings?
- 2 (a) State the applications of semi-centrifugal and centrifugal casting methods.  
(b) Write the advantages, limitations and product applications of investment casting.
- 3 (a) Describe the gas welding process with neat diagram.  
(b) Explain the plasma arc cutting process with neat sketch.
- 4 (a) Describe the difference between brazing and soldering.  
(b) Describe with the help of a neat sketch the principle of spot welding.
- 5 (a) Compare the properties of cold worked and hot worked parts with examples.  
(b) Distinguish between hot rolling and cold rolling.
- 6 (a) Explain the cold spinning and hot spinning operations with neat sketches.  
(b) Explain the coining operation with a neat sketch.
- 7 (a) Explain the principle of impact extrusion with neat sketch.  
(b) Sketch and explain roll forging. Differentiate between roll forging and rotary forging.
- 8 (a) How are plastics classified? Explain.  
(b) What is blow moulding? Explain with the help of a neat sketch.

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