

Code No: 54060

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD**B.Tech II Year II Semester Examinations, December-2014/January-2015****PRODUCTION TECHNOLOGY****(Common to ME, MCT, AME, MSNT)****Time: 3 hours****Max. Marks: 75**

Answer any five questions
All questions carry equal marks

- 1.a) What are the materials used for patterns?
b) Classify the types of patterns and pattern allowances.
- 2.a) Discuss the Chvorinov and modulus method in designing the riser system.
b) Briefly describe the investment casting process.
3. Describe the functioning of welding equipment in the oxy acetylene welding process.
4. How metal transfer takes place based on the usage of current and voltage?
5. Discuss about the break down passes and roll pass sequences for rolling channel sections.
- 6.a) Differentiate between hot spinning and cold spinning operations.
b) What are the parameters calculated for the draw die design?
- 7.a) Differentiate between forward and backward extrusion & impact and hydrostatic extrusion processes.
b) What is the procedure followed in the drop forging die design?
8. Describe the types, properties, processing and applications of plastics.

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