Code No: R7210301



Max Marks: 80

II B.Tech I Semester (R07) Supplementary Examinations, May/June 2010 PRODUCTION TECHNOLOGY

(Mechanical Engineering)

Time: 3 hours

Answer any FIVE Questions All Questions carry equal marks

- 1. (a) What is permeability and why is it important in molding sands?
 - (b) What are the advantages, disadvantages and limitations of casting process?

[8+8]

- 2. (a) Write notes on nucleation and grain growth related to casting?
 - (b) What must be the preferred shape of a riser? Explain.

[8+8]

- (a) What are the parameters that decide drag in oxy-fuel gas cutting? Explain how a cut is achieved? CU
 - (b) Differentiate between solid phase welding and liquid phase welding?

[8+8]

- (a) What are the disadvantages of bare wire electrode?
 - (b) Mention the causes and remedies for magnetic arc blow.

[8+8]

- 5. (a) Discuss briefly the advantages of hot working over cold working
 - (b) What is meant by grain flow in the case of forged (or) rolled components?

[8+8]

- (a) Explain the coining operation with a neat sketch
 - (b) Describe briefly the deep drawing operation with a neat sketch? And discuss its advantages and applications? [8+8]
- (a) Why are heat-treatments given to forged components? Explain Annealing, Hardening, tampering in relation to forging?
 - (b) List the different stages in the drop forging processes in production of a component such as a spanner? [8+8]
- (a) Explain with a neat sketch compression moulding method for processing of plastics? and state their advantages and applications?
 - (b) Explain briefly blow moulding with help of neat sketch and state its advantages and applications? [8+8]
