(Pages: 2)

Reg. No.:

Fourth Semester B.Tech. Degree Examination, July 2015 (2008 Scheme)

Branch: Mechanical Engineering
08.404: MANUFACTURING PROCESS (MN)

Time: 3 Hours

Max. Marks: 100

Instruction: Answer all questions from Part – A and any one full question from each Module of Part – B.

PART-A

- 1. Compare the different types of sand moulds.
- 2. Write notes on internal and external chills.
- Write notes on riser location.
- 4. Discuss about the types of flames in gas welding.
- 5. Explain the principle of explosive welding.
- 6. Describe the resistance seam welding.
- 7. Explain the planetary rolling mill.
- 8. Explain the wire drawing operation.
- 9. Write notes on weld defects.
- 10. Describe the thread rolling process.

(10×4=40 Marks)



PART-B

Module - I

- 11. a) Explain the properties of moulding sand.
 - b) Discuss the different types of cores with neat sketch.

OR

- 12. a) Explain the hot chamber die casting process and give its applications.
 - b) Write notes on solidification of castings.

Module - II

- 13. a) Differentiate between TIG and MIG welding process.
 - b) Explain the principle of carbon arc welding. How does it differ from shielded metal arc welding?

OR

- 14. a) Describe the thermit welding process.
 - b) Explain the friction welding process.

Module - III

- 15. a) Explain the process of manufacturing aluminium utensils.
 - b) Discuss the open die and closed die forging operations.

OR

- 16. a) Differentiate between hot extrusion and cold extrusion.
 - b) Write notes on:
 - i) compacting
 - ii) sintering.

(3×20 = 60 Marks)