

Roll No.

23056

**M. Tech. 1st Semester (Mech. Engg.)
(Manufacturing & Automation)
Examination – December, 2014**

FOUNDRY TECHNOLOGY

Paper : 835/M-609-A

Time : Three Hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any *five* questions. All questions carry equal marks.

1. (a) Which types of Item can be made in Foundry Shop ? 10
- (b) What are the merit and demerit of foundry technology over other manufacturing process ? 10
2. Explain the any one of the melting furnace for aluminium alloy in detail. 20

3. What do you mean by solidification and explain the solidification of pure metal ? 20
 4. What is gating system ? Explain its characteristic, types and function in detail. 20
 5. Explain the hot chamber Die casting with neat sketch, working, principle and precautions. 20
 6. (a) What steps should be taken for fettling ? 10
(b) What procedure should be taken for casting Inspection ? 10
 7. Explain the heat treatment process of Non-Ferrous casting. 20
 8. Explain the different process for modernization of foundry. 20
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