

Roll No.

23056

**M.Tech 1st Semester (Mech.
Engg.) (Manufacturing and
Automation)**

Examination-May, 2014

FOUNDRY TECHNOLOGY

Paper 835/M-609-A

Time : 3 hours

Max. 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 the examination.

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

1. (a) Define the Foundry ? What are the advantages and limitations of foundry ?

10

(b) What is solidification of casting ? 10

2. (a) What are various mould design considerations ? 10
- (b) What is castability and factors favouring castability ? 10
3. Explain the following :
- (a) Melting furnace for the cast iron 10
- (b) Traffic rules applications 10
4. What is the role of gating system ? Explain in detail the objectives, practical rules of gating system. Also explain types of gates. 20
5. (a) What is gravity die casting ? 10
- (b) What is steel mould casting ? 10
6. (a) What is casting inspection ? 10
- (b) What is repair and salvage of casting ? 10

7. Explain the following :

(a) Quality control of casting 10

(b) Centrifugal casting 10

8. Write short notes on the following :

(a) Heat treatment of casting 10

(b) Modernization of casting 10
