

Roll No. ....

**23056**

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

**Examination – January, 2016**

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

1. What is foundry technology ? Emphasize the use of foundry technology in our industrial life. Discuss the advantages of casting. 20
2. Discuss the various steps of casting by using cube and hope you draw the suitable figure in support of answer. 20
3. What is pattern ? Discuss the various types of pattern and why allowances are given to pattern. Explain. 20

4. Discuss with the help of suitable diagram the cupola furnace used for the melting of cast iron. 20
  5. Explain with the help of neat diagram centrifugal casting and shell mold casting. 20
  6. Explain the process of cleaning of casting and also discuss the use of pickle bath solution process of surface cleaning of castings. 20
  7. Explain the various steps followed for controlling the pollution in foundry industry. Discuss. 20
  8. Write short notes on : 20
    - (a) Casting inspection,
    - (b) Repair of castings ,
    - (c) Modernization of foundry shop.
-