

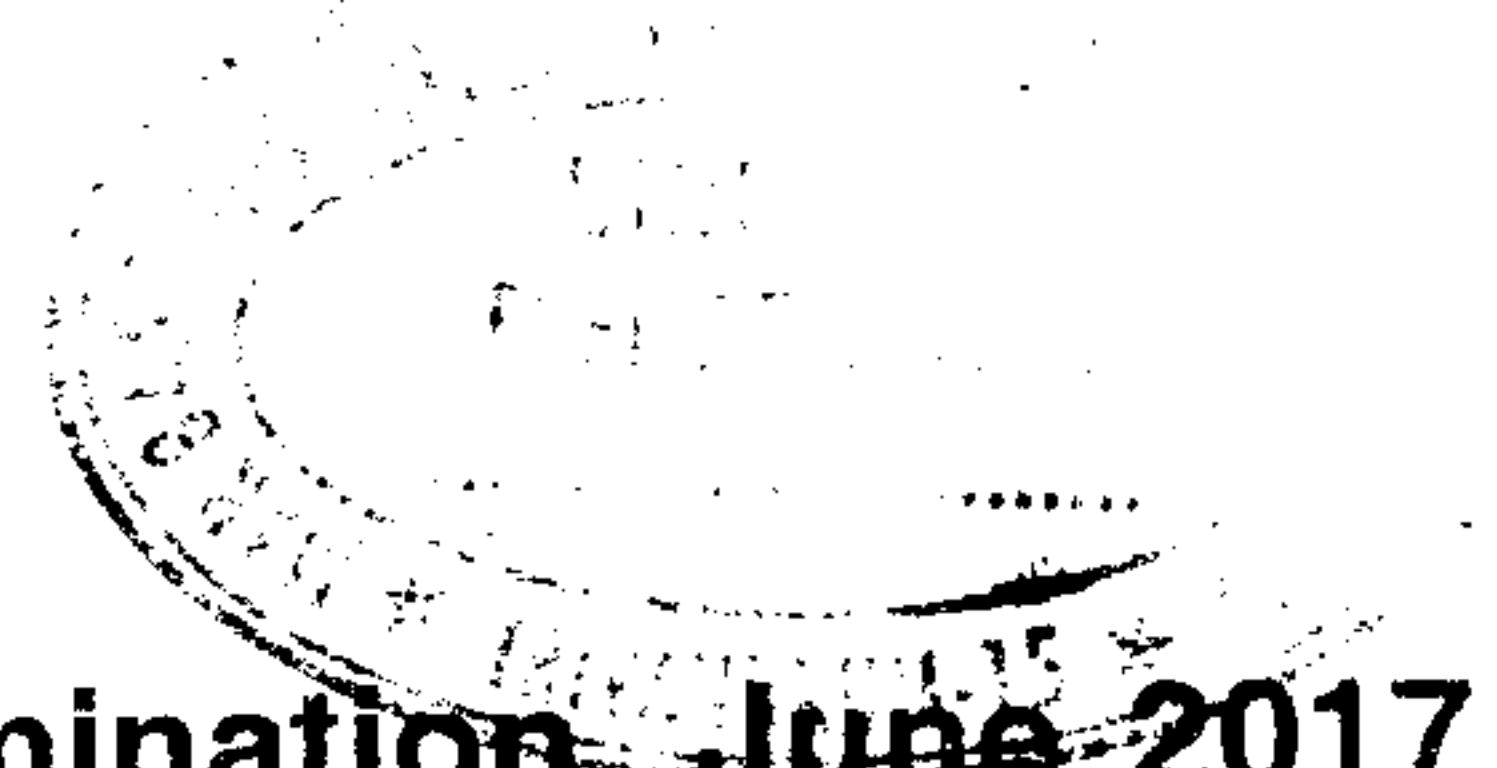


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B – 6071

Reg. No. :

Name :



**Fourth Semester B.Tech. Degree Examination, June 2017
(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. Write the basic steps in the casting process.
2. What is the role of the chills in casting ?
3. Enumerate the requirements of a good pattern.
4. How metal pieces are joined in a village smithy shop ?
5. Explain with neat sketch the HAZ in welding.
6. How the inspection of the weld is carried out ?
7. Differentiate between cold working and hot working.
8. Explain defects in rolled products.
9. Give the importance of sintering in powder metallurgy.
10. What is continuous casting ?

(10×4=40 Marks)

P.T.O.



PART – B

Module – I

11. a) What properties are desirable of a moulding sand from the stand point of sound casting ?
b) Explain the method of determining the moisture content in a moulding sand.

OR

12. a) Explain the process of plaster mould casting.
b) Explain with neat sketches the pressurised and unpressurised gating system.

Module – II

13. a) Why is the neutral flame extensively used in oxy acetylene welding ?
b) Explain the principle of resistance welding process. How it differs from arc welding ?

OR

14. a) Explain the ultrasonic welding process.
b) Describe with a neat sketch the TIG welding process. Give its applications.

Module – III

15. a) Explain the rolling of tubes.
b) Discuss the rotory swaging process.

OR

16. a) Explain the mechanisms used in forging process.
b) Write notes on :

i) Wire drawing process

ii) Thread rolling.

(3×20=60 Marks)
