

Roll No

AU/ME-224

B.E., III Semester

Examination, December 2016

Choice Based Credit System (CBCS)

Manufacturing Processes

Time : Three Hours

Maximum Marks : 60

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) State the essential properties of a moulding sand.
b) What is Draft Allowance? How it is provided for patterns?
2. a) Write the classification of moulding and casting processes.
b) Describe in brief the equipment required for oxy-Acetylene welding and cutting.
3. a) What are the functions of flux? Name the "Fluxes" which are commonly used for soldering and brazing processes?
b) Compare the merits and demerits of using A.C. and D.C. Arc welding.
4. a) Give the name of different types of furnaces. Also explain any one in brief.
b) Write the theory and application of forging processes.

5. a) What do you understand by drop and horizontal forging machines? Explain with the help of suitable diagram.
b) Write the difference between coining and embossing.
6. a) What are the advantages of hot working over cold working of metals?
b) What is the significance of roll diameter with reference to the roll separating force in rolling?
7. a) Explain working principle of Lathe machine with the help of suitable diagram.
b) Explain Quick return mechanism of shaper machine.
8. Write short note on:
 - a) Operations on drilling machine
 - b) Pattern design considerations
 - c) Welding defects and remedies
