

GOVERNMENT COLLEGE OF ENGINEERING AURANGABAD

An Autonomous Institute of Government of Maharashtra

SE Mechanical End Semester Examination Nov 2016

Course Code ME 245

Subject Manufacturing Process

Max Mark 60

"Verify the course code & check whether you have got the correct question paper"

- Assume Suitable data where necessary
- Section A is compulsory
- Attempt any three in Section B
- Attempt any two in Section C

12 3.NOV 2016

Section A (3×8=24)

1. List the advantages of forging process of metal. Distinguish clearly drop forging and press forging process with reference to process and product obtain
2. What is function of clay in moulding sand? If clay is mixed in more quantity what will happen? Explain the clay content test in detail.
3. Describe effect of cold working on the metal and limitations of cold working process. What is effect of friction on cold working process?

Section B (3×7=21)

1. What is importance of sand conditioning? explain sand conditioning equipment with detail figure
2. What are different factors affecting the selection of pattern making materials
3. What are different polymers additives are used in plastic process? Why?
4. What are the different types of welding? Describe two of them

Section C (2×7.5=15)

1. Describe different heat treatment processes are used after forging and what are effect of that on forged part
2. Describe and draw molding tools and equipment and write down their uses
3. Explain wire drawing and tube drawing in detail