

**M.Sc. CREATIVE DESIGN CAD-CAM  
(MSCCAD)**

**Term-End Examination**

**00404**

**June, 2017**

**MFR-036 : PRODUCT DESIGN PROCESS  
(A) COMPONENT MAKING  
(B) MAKING AND FINISHING**

*Time : 3 hours*

*Maximum Marks : 70*

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

1. What are the different materials used for making heels ? Discuss the various designs of heels. 10
2. What is continental insole ? Write the sequence of operations for making continental insole. 10
3. Write the sequence of operations for making close trim leather unit sole. 10
4. As a designer, what important points would you consider while selecting different bottom components for a particular design ? 10
5. Draw the diagram showing drafting pulls in hand lasting process and explain in brief. 10

6. Explain the following : 10
- (a) Force Lasting
  - (b) Pounding
  - (c) Heel Pressing
  - (d) Heat Re-activation
  - (e) Delasting
7. Classify the lasts, based on the hinges. 10
8. Write down the sequence of operations by hand lasting for stuck on construction. 10
9. What remedial actions will you take as finishing incharge, if 10
- (a) Nubuck leather bleeds.
  - (b) Burnish bleeds.
  - (c) The shoe after finishing does not have sufficient gloss.
  - (d) Fungus appears on leather surface.
10. Write short notes on the following : 10
- (a) Aniline finish leather
  - (b) Deep hair cell printed leather
  - (c) PU film coated leather
  - (d) Brush off finish leather
  - (e) Nubuck leather