

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

**Term-End Examination**

00191

**December, 2017**

**MFR-034 : PRODUCT DESIGN PROCESS**

*Time : 3 hours*

*Maximum Marks : 70*

**Note :**

- (i) *Attempt any seven questions.*
- (ii) *All questions carry equal marks.*

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1. What are the leather storage factors that should be considered by a shoe factory ? Explain them in detail. 10
  2. Describe in brief the different types of clicking dies (based on height and edges) and their functions. 10
  3. Explain any five parts and functions of a swing arm clicking press machine. 10
  4. What steps will you take when you receive a leather consignment in your shoe factory ? Why is leather incoming inspection essential in a shoe factory ? 10

5. What is the purpose of leather grading ? Explain any one leather grading method with an example. 10
  6. Classify the needle on the basis of system, with diagram. 10
  7. What is Thread Twist ? Draw the diagram of thread twist. What are the different methods to size a thread ? 10
  8. What is the purpose of using a cutting point needle ? Explain different types of two-edge cutting point needles with diagram. 10
  9. What are the different factors which affect the selection of adhesive ? 10
  10. What is the purpose of seams ? Explain any two types of seams with diagrams. 10
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