

00412

**M.Sc. FOOTWEAR TECHNOLOGY  
(MSCFWT)**

**Term-End Examination**

**December, 2011**

**MFW-036 : LASTING**

*Time : 3 hours*

*Maximum Marks : 70*

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

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1. What are direct and indirect constructions ? 10  
Which construction use the direct type of lasting ? Name the intermediate component's in them.
  2. Write down the use of the following :
    - (a) Top thermal unit in toe conditioning 5x2=10
    - (b) Distilled Water
    - (c) Wiper plate
    - (d) Chiller
    - (e) Heel crowning
  3. What do you understand by the term "Quality check points" ? Write down ten of them in a complete stuck on shoe with goat leather upper and PVC sole. 10

4. Draw cross sectional labelled diagram of a full shoe of the following construction. 5x2=10
- (a) Stuck on construction
  - (b) Direct Injection Process
  - (c) Stitch down (Veld-Scheon)
  - (d) Weltped construction
  - (e) Moccasin
5. Write down the sequence of operation of stuck on construction for a shoe made with leather upper and TPR sole. 10
6. Why sole preparation is done before adhesive application ? Write down the preparation of the soling material and adhesive used while attaching them with leather upper. 10
7. Write the purpose of the following \_\_\_\_\_ 5x2=10
- (a) Hot mould in counter moulding m/c
  - (b) Cold mould in counter moulding m/c
  - (c) Injector in toe lasting machine
  - (d) T.C.F in toe lasting machine
  - (e) Toe band in toe lasting machine

8. What are method adopted in the shoe industry for attaching insole to the last ? Define in brief at least four of them and their advantages. 10
  9. What types of adhesives would generally be used in the lasting Department ? Name and explain briefly. 10
  10. In a factory where you are the lasting manager, the soles are opening up. The solé is of T.P.R. and upper material is of leather. Give step by step process to tackle this problem. 10
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