

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

**Term-End Examination
December, 2015**

MFW-036 : LASTING

Time : 3 hours

Maximum Marks : 70

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

1. What is heat setting ? Explain different types of heat setters. 10
2. How do you process the following soling materials while attaching to the leather upper ? 2×5=10
 - (a) TPR
 - (b) EVA
3. Describe, point by point, the sequence of operation for Goodyear welted on construction of full shoe making by using hand lasting method. 10
4. Draw the cross-sectional diagrams of the following and give examples of their application : $4 \times 2 \frac{1}{2} = 10$
 - (a) Flat Lasting
 - (b) Force Lasting
 - (c) Rib Lasting
 - (d) Flanged Lasting

5. What actions should you take, if you observe the following problems in a mechanized shoe manufacturing? $4 \times 2 \frac{1}{2} = 10$
- (a) Wrinkle in the toe above the feather edge
 - (b) Insole bending after lasting
 - (c) Change in the finish of upper after heat setting
 - (d) Adhesion failure of the outsole
6. What are the different links of adhesions? Give the reasons for the weakness of each link. 10
7. What is the purpose of solvent while attaching toe-puff and counter-stiffener? Write at least three solvents used for this purpose. 10
8. What do you understand by the 'Quality Check Points'? Write down ten of them in a complete stuck-on shoe with goat leather upper and PVC. 10
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