

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

00430 Term-End Examination

December, 2017

MFW-036 : LASTING

Time : 3 hours

Maximum Marks : 70

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

1. Describe the sequence of operations of flat lasted cemented construction with diagram. Use machine lasting process and PVC sole. 10

2. What type of adhesives would you generally use in the lasting department ? Name and explain their usages. 10

3. Draw a diagram showing hand drafting pulls. Write the positions of the pulls and the checks after giving the drafting pulls. 10

4. Define the following :

5×2=10

- (a) DMS
- (b) Thermoplasticity
- (c) Carbon paper test
- (d) Hinge in a last
- (e) Priming

5. Give reasons for the following :

4×2 $\frac{1}{2}$ =10

- (a) Toluene is preferred over MEK for activation of toe puff during hand lasting.
- (b) Semi-chrome leather requires lower heat setting temperature.
- (c) McKay stitch is used in moccasin shoes.
- (d) Bottom filler is used in flat lasted footwear.

6. Answer the following :

4×2 $\frac{1}{2}$ =10

- (a) What do you understand by specific and mechanical adhesion ?
- (b) Why are hardeners used in adhesives ?
- (c) Why is U.V. pigment used in T.P.R. primer ?
- (d) State the purpose of heat setting.

7. Write down the preparation required for the following sole materials and adhesives used while attaching them with leather uppers : $4 \times 2 \frac{1}{2} = 10$

- (a) EVA
- (b) TPR
- (c) Leather Sole
- (d) Micro Cellular Rubber

8. Discuss the advantages and limitations of hand lasting over machine lasting. 10

9. What types of grinders would you generally use in the lasting department ? Name and explain their usages. 10
