

M.Sc. FOOTWEAR TECHNOLOGY (MSCFWT)

Term-End Examination

December, 2017

00270

**MFW-027 : INTRODUCTION TO
MANUFACTURING TECHNIQUE**

Time : 3 hours

Maximum Marks : 70

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

1. (a) What is a Last ? Describe the main types of lasts.

(b) What do you understand by sizing systems ? Briefly explain English and French sizing systems.

5+5

2. (a) Write the safety precautions to be followed in the clicking department.

(b) Explain the procedure of making a hand cutting blade on bench grinder.

(c) What are the different types of clicking dies ? Write their applications.

(d) Draw an animal side and show different quality regions.

$$2\frac{1}{2} + 2\frac{1}{2} + 2\frac{1}{2} + 2\frac{1}{2}$$

3. (a) Write down the names of tools required for hand cutting. Give their specific uses.
- (b) Why are synthetic materials cut in layers while leather materials are not cut in layers ? Explain. 5+5
4. (a) Give the names of stitching machines. How are stitching machines classified ?
- (b) Explain the following in brief :
- (i) Feed dog
 - (ii) Shank
 - (iii) Shaft
 - (iv) Scarf
 - (v) Head groove 5+5
5. (a) How will you set a travelling head cutting press machine for a particular die ?
- (b) What is continental insole ? Write the sequence of operations for making a continental insole. 5+5
6. (a) Explain the following :
- (i) Treadle
 - (ii) Pulley
 - (iii) Throat plate
 - (iv) Face plate
 - (v) Tension disc
- (b) Name the different types of motors used in the stitching department. Write the use of each motor. 5+5

7. Answer the following in brief :

$$4 \times 2 \frac{1}{2} = 10$$

- (a) How can a clicker use the offal area during Derby shoe cutting ?
- (b) Differentiate between Nubuck leather and Suede leather.
- (c) Why does a P.P. board require smooth surface during machine cutting ?
- (d) Why are underlay allowance, lasting allowance and folding allowance provided ?

8. (a) Explain the following terms :

- (i) Trimming margin
- (ii) Scoop last
- (iii) Mean forme

(b) Write down pre-operation check points. 6+4
