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

**Term-End Examination  
June, 2012**

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

*Time : 3 hours*

*Maximum Marks : 70*

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*Note : Attempt any seven questions.*

*All questions carry equal marks.*

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1. Why do we provide the following margins ? 10  
(a) Under Lay      (b) Trimming
  
2. Why do we provide underlay margin in vamp lining ? Give at least three reasons. 10
  
3. Explain in brief (*Any five*) : 2x5=10
  - (a) How can we use of offal area during derby layout making ?
  - (b) What is PP Board ? Explain its applications.
  - (c) What is the function of N1, N2, N3, Switches in the clicking machine ?
  - (d) Draw the diagram of CPE5 and CPE6 and show cutting directions.
  - (e) Why leather is not cut in layers ? Explain.
  - (f) Explain types of hand cutting blades used and their applications.

4. Answer *Any four* of the following : **4x2.5=10**
- (a) What are the safety points one should remember while operating clicking press ?
  - (b) Explain the procedure of making hand cutting blade on bench grinder.
  - (c) Explain different types of clicking dies and their application.
  - (d) Draw a cow side and show different quality regions and line of stretch in each quality region.
  - (e) What are the advantages of making layout ? Write important points to remember while making Derby layout on Cow C.G. leather.
5. (a) Define the following : **5x2=10**
- (i) Treadle
  - (ii) Pulley
  - (iii) Throat plate
  - (iv) Face plate
  - (v) Tension disc
- (b) Explain *any ten* types of stitching machines in closing department.
6. (a) Explain different types of motor in stitching department. **5x2=10**
- (b) Name and explain different types of tools used in closing department.

7. State true or false. State reasons also.  $2 \times 5 = 10$

- (a) Layer of material placed in between the outsole and insole is called midsole.
- (b) The top surface or walking surface of heel is called as top piece.
- (c) Chrome tanned leather is used for making leather unit sole.
- (d) Insole board is non - woven board.
- (e) Resin, Alum and Latex are non - fibrous.

8. Attempt *any five* questions of the following :  $5 \times 2 = 10$

- (a) Write the various types of insole. Where they are used ?
- (b) Write the ten important parts and functions of travelling head cutting machine.
- (c) What are the various method for manufacturing fibre boards ? Explain Cylin vat machine with diagram.
- (d) What is continental insole ? Write the name of machine used for making insole and their function also.

- (e) A company required 4000 pairs of Toe-puff and counter stiffener each per day. For that component section of company provides these components daily. At the end of the day manager finds that the cutter wasted the material and instead of cutting 156 odd from Toe-puff and 125 odd from counter stiffener per sheet. He cut 2 odd less from Toe - puff and 3 odd less from counter stiffener sheet. Find the loss incurred by the company on that particular day if company is using one Toe-puff sheet of Rs. 250 and counter stiffener sheet of Rs.300 respectively.
- (f) Write the six important parts and function of skiving machine.
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