

B. Sc. FOOTWEAR TECHNOLOGY (BSCFWT)

Term - End Examination

December, 2011

00062

**BFW-038 : INTRODUCTION TO
MANUFACTURING TECHNIQUE**

Time : 3 hours

Maximum Marks : 70

Note : *All questions are compulsory. Use of scientific calculator is permitted.*

1. (a) State True/False : 5x1=5
- (i) A shoe derives its fitting and comfort from the last. (T/F)
 - (ii) Toe-puff makes the upper soft and flexible. (T/F)
 - (iii) Size 25 indicates the child category in French Size System. (T/F)
 - (iv) C-hinge last is the other name for vertical hing last. (T/F)
 - (v) The human foot has three arches. (T/F)
- (b) Answer the following : 5x1=5
- (i) State the difference between Oxford and Derby.
 - (ii) How many bones do we have in foot ? Name the bones of tarsus group.

- (iii) What is the need of giving trimming margin and where is it given ?
- (iv) What is Lasting Margin ? Why do we need it ?
- (v) Name the important reduction in lining standard. Give reasons.

(c) Answer the following : **4x1=4**

- (i) Name five basic sizing systems.
- (ii) What is the length of smallest size in English sizing system ?
- (iii) What is the girth increment given in English and French size systems ?
- (iv) Briefly explain American sizing system.

(d) Answer the following : **4x1½=6**

- (i) Name the foot arches.
- (ii) State foot arch functions.
- (iii) The absence of which arch leads to flat foot.
- (iv) Show all foot arches with a diagram.

2. (a) Fill in the blanks : **5x1=5**

- (i) _____ Blade used for thin leather cutting by hand.
- (ii) Brand marks will appear on the _____ side of the skin.

- (iii) _____ m.m. blade die used for foam and synthetic cutting by M/C.
 - (iv) Cutter should always use _____ die on the cutting board during M/C cutting.
 - (v) On a good skin tongues should never be cut from the _____.
- (b) Explain in brief : 5x1=5
- (i) Write different types of M/C cutting knives.
 - (ii) How you will set and operate swing arm clicking press ?
 - (iii) Why aluminium plate is used in clicking press ?
 - (iv) Where we use perforated dies ?
 - (v) What is leather well ?
- (c) (i) Show lines of stretch in Leather Hide. 5x2=10
- (ii) Show different quality regions in Leather Hide.
 - (iii) Explain various types of cutting blades used for hand cutting with diagram.
 - (iv) Explain why we are using leather as shoe material ?
 - (v) Explain step by step procedure of setting of Swing Beam Press cutting machine.

3. (a) Fill in the blanks :

5x1=5

- (i) Hook rotates _____ before one stitch formation.
- (ii) Do not make your own _____.
- (iii) _____ is the thickest part of needle.
- (iv) While doing double row stitching the gap between two rows should be _____.
- (v) Strobel machine is used for _____ stitching.

(b) Write *True* and *False* :

5x1=5

- (i) While changing or replacing the needle machine should be switch off.
- (ii) Short groove protects the thread while it is going inside the material.
- (iii) Threading is always done in the needle from short groove to long groove.
- (iv) While inserting the needle into needle bar long groove should face towards the hook.
- (v) We should use 60 No. bottom threads and 40 No. top thread.

4. (a) Write down about the five points of bench layout while working on the machine. 3
- (b) Define main stitching machine and ancillary machine used in closing department. 3
- (c) Write down about the safety points while working on machine. 3
- (d) Write down the function of following needle parts. 3
- (i) Shank
- (ii) Long Groove
- (iii) Clearance cut
- (iv) Needle point
- (e) Explain about different machine parts and its function. 4
- (f) Explain about the tools and equipment used in closing department. 4
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