

B.Sc. FOOTWEAR TECHNOLOGY (BSCFWT)

Term-End Examination

00114

June, 2017

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

Time : 3 hours

Maximum Marks : 70

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

1. Answer the following questions in brief : $2 \times 5 = 10$
 - (a) State the functions of footarch.
 - (b) Show all foot arches with a diagram.

2. Explain the following questions in brief : $5 \times 2 = 10$
 - (a) Write down different types of clicking knives used in the shoe industry.
 - (b) How will you set and operate a swing arm clicking press ?
 - (c) Why is an Aluminum Plate used in a clicking press ?
 - (d) Where do we use perforated dies ?
 - (e) What is 'leather well' ?

3. Explain various types of cutting blades used in hand cutting with the help of neat diagram. 10
4. Explain the step-by-step procedure of setting of swing arm clicking press machine pressure before start of cutting. 10
5. Write down the five points of bench layout while working on the machine. 10
6. Write down the functions of the following needle parts : $4 \times 2 \frac{1}{2} = 10$
- (a) Shank
 - (b) Long Groove
 - (c) Clearance Cut
 - (d) Needle Point
7. (a) Fill in the blanks : $5 \times 1 = 5$
- (i) Needle no. _____ should be used with TKT-40 thread.
 - (ii) TKT-60 is _____ ply thread.
 - (iii) _____ is the thickest part of needle.
 - (iv) While doing double row stitching, the gap between two rows should be _____.
 - (v) Lock stitch should be given before and _____ of every stitching.

(b) Write *true* and *false* for the following statements : 5×1=5

- (i) While changing or replacing the needle, the machine should be switched off.
- (ii) Short groove protects the threads 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 the needle bar, long groove should face towards the hook.
- (v) We should use 60 no. bottom threads and 40 no. top threads.

8. Define the main stitching machine and ancillary machine used in the closing department. 10
9. Write down the safety points while working on machines in the closing department. 10
10. Explain the tools and equipment used in the closing department. 10
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