## **Term-End Examination**

### December, 2013

## BFW-040 : MANUFACTURING TECHNIQUE - I

Time : 3 Hours

1.

Maximum Marks : 70

Note : Section A is compulsory. Answer any ten (10) questions from Section - B and any seven (7) questions from Section - C.

# SECTION - A (Compulsory)

(a) State whether the following questions are

### True or False.

- (i) Leather is a natural material obtained by tanning.
- (ii) Leather is having poor thermal conductivity.
- (iii) During cutting, line of tightness of components, should be perpendicular to the line of stretch of the skin.
- (iv) Clicking force in machine cutting is directly proportional to the perimeter of the component.
- (v) The percentage of defects in C grade leather is 18%
- (vi) A last is reproduction of the approximate shapes of the human foot.

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11x1 = 11

- (vii) French binding is also known as U- binding.
- (viii) The same last can take different heel heights.
- (ix) Mule is a variation of sandal
- (x) V.T. leather is a natural material.
- (xi) Texon boards are also known as Shank boards.
- (b) Fill in the blanks.

4x1=4

- (i) Court shoe is a \_\_\_\_\_footwear.
- (ii) Standard back height of size 39 is \_\_\_\_\_mm.
- (iii) Monk is a \_\_\_\_\_variation.
- (iv) In oxford shoes quarter is \_\_\_\_\_\_ the vamp.

#### **SECTION - B**

2. Explain in brief any ten questions :

10x2=20

- (a) What is nesting ?
- (b) Why topline of quarter should be strong ?
- (c) Show the line of tightness in goat skin.
- (d) Write down the formula of defective area percentage calculation.
- (e) Define the shoe factory method of grading.
- (f) What is sorting of leather?
- (g) Name and explain four basic styles of footwear.
- (h) Why do we provide the following margins ? Also give approx. measurements (in mm only) :
  - (i) Raw edge
  - (ii) Trimming

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- (i) Differentiate between full grain and corrected grain leather.
- (j) Differentiate between open and closed seam.
- (k) Define the term insole, to puff and Heal.
- (l) Write four major parts and their functions of skiving machine.

### SECTION - C

### (Answer any seven question)

- 3. Explain the various types of random physical tests for the selection of leather. 7x5=35
- 4. What are the recommended controlling parameters for leather storage?
- 5. Describe in brief the following :
  - (i) Needle guard
  - (ii) Horizontal hook
- **6.** Explain the different criteria of selecting a thread for closing of upper.
- 7. How will you set travelling head cutting press machine for a particular die?
- 8. What are the various methods for manufacturing fibre boards? Explain fourdrinier machine with diagram.
- **9.** Write the dimensions (L xB x h) of cellulose board, shank board and steel shank.

- **10.** What are the different types of Toe puff and counter stiffener which are used in manufacturing of shoes ?
- 11. What do you understand by purchase cost variance ? A shoe factory has recieved 9000 sq.ft. of leather of TR grade. The price quoted as Rs. 68 per sq.ft. After arrival of the leather following results an observed on checking a lot :

Grade	Quantity
А	1800 sq.ft
В	3850sq.ft
С	3350sq.ft

Calculate purchase cost variance in terms of profit (+) or loss (-).