M.Sc. IN CREATIVE DESIGN CAD/CAM (MSCCRD)

Term-End Examination

June, 2014

MFW-041 : FOOTWEAR TECHNOLOGY – I

Time : 3 hours   *Maximum Marks : 70*

*Note : **All** questions are compulsory.*

SECTION A
Cutting

Fill in the blanks :

1. (a)   During cutting, line of tightness of shoe component should run _____ to the line of stretch.   *1×5=5*

    (b)   Style A has 4 components per odd and style B has 7 components per odd. 2nd wastage will be more in style _____ .

    (c)   Normally _____ allowance in shoe upper component is 0·4 to 0·5 cm.

    (d)   Shade variation is a defect in the case of _____ leather.

    (e) $G = S ($ _____ $+ 25/A)$ in case of S/A > 0·185.

SECTION B

2. Answer any *five* of the following questions in brief : $2 \times 5 = 10$

(a) What is use of size notches ? What will be the notch on the die of size 10 ?

(b) Draw a diagram of cow hide and show different quality regions and line of tightness.

(c) What are the advantages of sorting in case of goat suede leather ?

(d) What is the purpose of Leather grading ?

(e) What do you understand by gross area in RSM ?

(f) What are the various anti-mortem defects found in Leather ?

(g) Why cannot Leather be cut in layers whereas synthetic materials can be cut in layers ?

SECTION C

3. Answer any *five* of the following questions in brief : 4×5=20

(a) Write step-by-step procedure for calculating scale area through 180° method.

(b) How do we store the Leather ? Explain the controlling parameters .

(c) A shoe factory purchased 4000 sq. ft. Leather. After re-grading of the Leather, the quantity of A, B, C grades found respectively was 1000, 1500, 1200 sq.ft. Calculate the profit/loss during purchasing of Leather.

(d) Draw the diagram of clicking press and show various parts of the clicking press.

(e) Write ten quality parameters for checking Upper Leather. Briefly explain about the procedure for the same.

(f) (i) For a jogger shoe, all components are traced on a synthetic upper material of width 52 inches. The total consumption per pair is calculated as 0·1150 sq. mtr. What will be the consumption (in metres) for 1000 pairs, if the incoming material is found to be of 50 inches ?

(ii) For style 'Oxford' size '7' calculate the gross area of vamp if the pattern scale area is 5·0 sq. dm. The Leather provided is of area 25 sq. dm. goat glazed 'A' grade. Also calculate the gross area of heel grip split Leather, if pattern scale area is 2·5 sq. dm. and Leather area is 40 sq. dm. of grade B.

(g) Briefly explain the properties of Leather as a shoe material.

SECTION D
Closing Section

4. (a) Write down any five quality specifications of upper making. *5*

(b) Name two classifications of hooks in sewing machines. *2*

(c) Name two types of finishes in needle. *2*

(d) Name three types of feed rollers in skiving machines. *3*

(e) Name any two cutting edge points. *3*

5. Answer in detail the following :

(a) Write down sequence of operations for hand turnover binding. *5*

(b) Define hook and explain its parts and functions. *5*

(c) Write down five properties of synthetic thread. *5*

(d) Explain about needle thickness. *5*