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

**Term-End Examination**

**June, 2013**

**MFW-041 : FOOTWEAR TECHNOLOGY - I**

*Time : 3 hours*

*Maximum Marks : 70*

*Note : Attempt all questions.*

1. You have been given a side of 15 sq ft. of corrected grain buff leather having thickness 1.2 mm – 1.4 mm for cutting the patterns of a shoe of size 7.
  - (a) Which type of die you will prefer single edge or double edge ? Give reasons. 2
  - (b) How much height you will maintain from die to the striking plate ? 1
  - (c) When the pressure will be more, during cutting of tongue or quarter ? 1
  - (d) From which portion of the side will you cut the Vamp ? Give reasons. 2
  - (e) What will be the mark on the die of Vamp and quarter for size identification ? 2
  - (f) Can you place the offal area in the lasting margin of Vamp ? Clarify with reason. 2

2. Match the following : 1x5=5
- |                           |                                |
|---------------------------|--------------------------------|
| (a) Grade waste           | (i) First waste                |
| (b) Edge waste            | (ii) Base multiplied by height |
| (c) Scale area            | (iii) Third waste              |
| (d) Norm                  | (iv) Second waste              |
| (e) Area of Parallelogram | (v) Area per pair              |

3. Fill in the blanks : 5x1=5
- (a) Flay cut will appear on \_\_\_\_\_ side of the full grain leather.
- (b) Leather grade depends on \_\_\_\_\_ leather.
- (c) Style A has 3 components per odd and Style B has 7 component per odd, 2<sup>nd</sup> wastage will be more in \_\_\_\_\_.
- (d) The skin's offal area cannot be used for \_\_\_\_\_ components at all.
- (e) Cutter should always use \_\_\_\_\_ die on the cutting board during M/c cutting.

4. What is Synthetic casting ? Explain the procedure of synthetic casting by graphical method. 4

5. Explain the method of leather storage conditions in store room. 4

6. State the purposes of leather grading. Also explain the grading in a shoe factory. 4
7. Explain the first, second and third wastage in RSM method. 4
8. What is leather casting ? Define the different methods of leather casting. 4
9.
  - (a) Write down any five quality specification of upper making. 5
  - (b) State two classifications of hooks in sewing machines. 2
  - (c) Name types of finishes used in needle. 2
  - (d) Name three types of feed roller used in skiving machines. 3
  - (e) Mention two cutting edge points in needles. 3
10.
  - (a) Write down sequence of operation for hand turnover binding with diagram. 5
  - (b) Describe hook and explain its parts and function. 5
  - (c) State five important properties of synthetic threads. 5