

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

**Term-End Examination**

**December, 2013**

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

*Time : 3 hours*

*Maximum Marks : 70*

*Note : Attempt all questions.*

1. You are the factory manager of a footwear making company which is also having tannery. You have to make leather shoe with leather lining and hence forth suede material for heel grip had been ordered with thickness of 0.7 - 0.9 mm. Unfortunately the lining received is 1.1 - 1.2 mm. Which of the following options, you will consider ? Also give reason for your decision. 5
  - (a) Cut the heel grip, and then split it on splitting machine from grain side.
  - (b) Use it, as it is unimportant.
  - (c) Return the material to the tannery.
  - (d) Cut the component and then split it from flesh side.
  
2. Write down the merits and demerits of RSM method. 4

3. Explain the Tracing method of synthetic costing. 4
4. Describe the types of random physical tests performed for leather selection. 4
5. (a) What do you understand by "color fastness test" ? 7x2=14
- (b) What is the second wastage in RSM ?
- (c) What is the purpose of leather grading ?
- (d) How we grade the leather without reference to the design ?
- (e) What do you understand by Area discrepancy ?
- (f) Why the top line must be stronger ?
- (g) Draw a hide and show line of tightness and line of stretch.
6. Fill in the Blanks : 8x1=8
- (a) The hide's belly area cannot be used for \_\_\_\_\_ components at all.
- (b) Flay cut will appear on the \_\_\_\_\_ side of the skin.
- (c) Line of tightness in the full shoe should run \_\_\_\_\_ .
- (d) 5<sup>th</sup> grade leather has got \_\_\_\_\_ % area of usable leather.

- (e) On a good skin, vamp should be cut from the \_\_\_\_\_ .
- (f) \_\_\_\_\_ Blade used for thin leather cutting by hand.
- (g) In RSM,  $G = S ( \text{_____} + S/A )$  for CG leather.
- (h) 1 sq.ft. is equal to \_\_\_\_\_ sq. dm.

7. State **True or False** (with reasons) 1  
 Shallow curve knives are used for cutting leather having thickness of 0.6 - 0.7 mm.
8. (a) Write down the formula of thread consumption in lock stitch and chain stitch. 2  
 (b) Name two types of needle thickness. 2  
 (c) Mention any five main qualities of threads. 5  
 (d) Mention the three types of knife in skinning machines. 3  
 (e) Name four cutting edge paints for dry and hard leather. 3
9. (a) State the sequence of operation for shallow bagged topline with diagram. 5  
 (b) What are reinforcements ? Name two types of it. 5  
 (c) What are the properties of polychloroprene adherines ? 5
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