

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

00485 Term-End Examination

December, 2014

MFW-041 : FOOTWEAR TECHNOLOGY – I

Time : 3 hours

Maximum Marks : 70

Note : All questions are compulsory.

SECTION A

Cutting

1. Fill in the blanks :

- (a) Nubuck is _____ grain leather. $1 \times 5 = 5$
- (b) In Scale area of component _____ wastage is included.
- (c) In Offal area we can take lasting margin of _____ .
- (d) Flay cut will appear on the _____ side of the skin.
- (e) Leather should be kept at _____ R.H. level.

SECTION B

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

- (a) Why must the topline be stronger ?
- (b) Why can the inside quarter be taken up from the lower quality area of leather than the outside quarter ?
- (c) What is the difference between corrected grain leather and full grain leather ?
- (d) What is purchase cost variance ?
- (e) What are the advantages of making layouts ?
- (f) What is the difference between scale area and gross area in RSM ?
- (g) Draw a diagram of skin and show quality areas and lines of tightness in the skin.

SECTION C

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

- (a) Write step-by-step procedure for calculating scale area through 0° method of RSM.
- (b) Explain the procedure of calculating material allowance of synthetic material by tracing method.
- (c)
 - (i) Calculate the new consumption of a synthetic material if the earlier consumption was 0.1052 sq. m. for 54 inch width of material. The new material has 48 inch width. The material is continuous roll.
 - (ii) For article X, the norm is 25 sq. ft. on size 41 for grade-2. The leather arrived in the company has the grade-3. Calculate the variation in the norm.
- (d) What are the advantages of making layouts ? Write five points to be kept in mind while making layout of Cow Full Grain leather.
- (e) Write answers in one or two words :
 - (i) Which material is used for making in clicking dies ?
 - (ii) Which type of clicking die is used for cutting synthetic materials ?
 - (iii) In clicking m/c striking plate of which materials are used ?
 - (iv) In clicking press the pressure is adjusted by which button ?
- (f) Why synthetic is used preferably as upper material for the sports shoe despite the fact that the leather has good breathability ?

SECTION D
Closing Section

4. Answer in brief the following :
- (a) Write down the formula of thread consumption in lock stitch and chain stitch. 5
 - (b) Name two types of needle thickness. 2
 - (c) Name any five main qualities of threads. 5
 - (d) Name four cutting edge paints for dry and hard leather. 3
5. Answer in detail the following : 4×5=20
- (a) Write down sequence of operation for shallow bagged topline with diagram.
 - (b) What are reinforcements ? Name two types of it.
 - (c) Write down the properties of polychloroprene adhesives.
 - (d) Explain any five parts in needle with details.
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