

**B.Sc. Foot Wear Technology
(BSCFWT)**

Term-End Examination

June, 2012

**BFW-046 : ADVANCED MANUFACTURING
TECHNIQUE**

Time : 3 hours

Maximum Marks : 70

Note : All questions are compulsory.

1. Fill in the blanks : 1x5=5
 - (a) During cutting, the line tightness of shoe component should run _____ to the line of stretch.
 - (b) Gross area $G = S$ (_____ + $2S/A$).
 - (c) Tack lasting is _____ construction.
 - (d) Silica gel in shoe box is used for _____.
 - (e) The top surface or walking surface heel is called as _____.

2. Attempt *any five* questions. *All* questions carry *equal* marks. 5x5=25
 - (a) Write the four different materials used for manufacturing soles. Discuss the Ideal qualities for soling materials.
 - (b) Write property of stitching room threads.
 - (c) Discuss in brief the shoe repairing technique.

- (d) Write quality parameters for checking cut components during final Quality Control (Q.C) in cutting department.
- (e) Give the cross sectional view of the following :-
 - (i) Good year welted construction.
 - (ii) San-Crispino construction.
- (f) Write at least ten common mistakes, which occur during the production of leather unit sole.

3. Attempt *any four* questions. Each questions carry *equal* marks : **10x4=40**

- (a) What are the different types of leather unit sole ? Also write the name of the machines and their function involved in sole manufacturing.
- (b)
 - (i) Explain the purpose of skinning.
 - (ii) Explain needle system with diagram.
- (c) Discuss in brief the cow leather faults and write down the process of rectification in finishing.
- (d)
 - (i) A shoe factory purchased 4000 SQFT. TR leather @ Rs. 70 per sqft. After regrading of the leather, the quality of A,B,C, grade found respectively 900, 1500, and 1200. SQFT. Calculate the profit/loss during purchasing of leather.

- (ii) What are the points to remember while cutting Cow Nubuck Leather for Moccasin article ?
 - (e) Write the purpose of heat setting. State the lab test that is carried out to confirm this. What is the basic heat setting temp. and dwell time for a F/C Upper Leather ?
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