

**M.Sc. FOOTWEAR DESIGN AND PRODUCTION
(MSCFDP)**

Term-End Examination

December, 2017

00699

**MFR-006 : ADVANCED MANUFACTURING
TECHNIQUE**

Time : 3 hours

Maximum Marks : 70

Note :

- (i) *Attempt any seven questions.*
- (ii) *All questions carry equal marks.*

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1. Differentiate between the following : 5+5
- (a) Classic shoes and Casual shoes
 - (b) Toe spring and Heel height
2. (a) What are the different materials used in a shoe upper construction ? Explain.
- (b) Write the sequence of operations of making closed trim leather unit sole. 5+5

3. Answer the following :

5×2=10

- (a) If the pattern scale area is calculated as 5.25 sq. dm for vamp for an article X, and the average size of skin is 15 sq. ft, then calculate the pattern gross area for vamp for the given article.
- (b) What do you mean by First Wastage in RSM ? Explain.
- (c) Define Area Discrepancy.
- (d) What is Pattern Gross Area in RSM ?
- (e) What is the purpose of Cutting Allowance calculation in the shoe industry ?

4. (a) Explain various leather storage parameters applicable for the leather shoe industry.
- (b) Write down various methods of leather grading followed by the shoe factories. 5+5

5. (a) What are the parameters that must be followed by a leather selector during sorting of Buff CG leather ?
- (b) How will you calculate cutting allowance for leather upper by using the graphical method ? What are the advantages of graphical method ? 5+5

6. A shoe factory has purchased 15,000 sq. ft. TR-1 cow burnish brown leather @ ₹ 100/sq. ft. After re-grading of leather, quantities of grade A, B and C are found to be 4800, 4700 and 4900 sq. ft. respectively. Calculate the profit/loss during purchasing. Also calculate overall area discrepancy % in the purchased leather lot. 10
7. Explain different types of adhesives used in the stitching department with their advantages and disadvantages. 10
8. Explain different types of seams with diagram. 10
9. What are the various defects that are found in the finished bottom leather ? How can we cut various bottom components, avoiding these defects ? 10
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