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MFR-006

M.Sc. FOOTWEAR DESIGN AND PRODUCTION (MSCFDP)

Term-End Examination

TID143

December, 2016

MFR-006 : ADVANCED MANUFACTURING TECHNIQUE

Time: 3 hours

Maximum Marks: 70

Note:

- (i) Attempt any seven questions.
- (ii) At least **one** question must be selected from each section.
- (iii) All questions carry equal marks.

SECTION A

- 1. What is the purpose of using shank board in designing?
- 2. Explain fastening devices. Give the important characteristics required for these devices. 10

SECTION B

Explain the methods of leather grading followed

4.	How will you calculate the cutting allowance for				
	leather upper by using graphical method?				
	Suppose, for an article X, upper leather is cow full				
	grain leather, leather grade is B and net area is				
	16.4 sq.dm for average size. How will you calculate the cutting norm for average size for an				
	article X?				

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5. Write the step-by-step procedure for calculating scale area through 180 degree method of RSM (Russ and Small Method).

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3.

by the tanneries.

SECTION C

6.	What is reinforcement? What is the purpose of using it in upper leather? What types of reinforcements should be used in upper leather on the basis of application?						
7.	What is a seam? Explain the different types of seams used in footwear with the help of						
	diagrams.						
8.	Prepare a technical data sheet for French seam. The data sheet must include the following						
		ormation:	10				
	(a)	Material: Cow leather, Types: full grain, Thickness: 1.2 mm					
	(b)	Skiving details: Types, width, depth, types of machine, machine manufacturer, etc.					
	(c)	Thread: Top and bottom thread size, twist, etc.					
•	(d)	Stitch: Types of stitch length, stitch density, etc.					
	(e)	Needle: length, size, system, point, etc.					
	(f)	Machine: Types, machine manufacturer name, country, model no., etc.					
	(g)	Tool: Names of the tools used while making this seam					
	(h)	Reinforcement tape: Material, types of weaving, width, colour, etc.					
	(i)	Adhesive: Types of Adhesive, if used	•				
	(j)	Diagram of the skiving and the French seam					

SECTION D

9.	What are the various defects that are found in the finished bottom leather? How can we cut						
	defects?						

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10. Write about the different types of leather unit sole. Also write the names of the machines used in manufacturing of leather unit sole.

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