

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

Term-End Examination

00650

December, 2017

**MFR-001 : PRODUCT KNOWLEDGE AND
MATERIAL FOUNDATION**

Time : 3 hours

Maximum Marks : 70

*Note : Attempt any **seven** questions. All questions carry equal marks.*

1. What do you understand by mechanical and chemical bonding ? Explain with suitable examples. 10
2. Describe various types of reinforcements used in footwear. 10
3. (a) Write four different materials used for manufacturing soles. Also write the ideal qualities for a soling material.
(b) Name the three companies involved in manufacturing of insole board and shank board. 7+3
4. (a) What is Lasting ? Draw a labelled diagram of lasting down construction.
(b) Write any five characteristics of aniline finish leather. 5+5

5. What are the different types of adhesives generally used in lasting departments ? Name and explain the different methods of using them on various upper and sole materials. 10
6. (a) Name and describe (in brief) the major tools used in making a complete shoe.
(b) Write down the quality checkpoints for finished leather. 5+5
7. (a) Explain a Mean Forme.
(b) How many arches do human feet have ? Name all of them.
(c) Explain why we provide open slots for U/L margins during pattern making. 3+4+3
8. (a) Why is leather superior to synthetics as a shoe material ?
(b) Write the names of Bottom components.
(c) What are the different types of lining materials used in footwear making ? 3+3+4
9. Explain the following : 5×2=10
- (a) Needles
 - (b) Velcro
 - (c) Punches
 - (d) Reinforcement
 - (e) Zipper
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