

**M.Sc. FOOTWEAR TECHNOLOGY  
(MSCFWT)**

00150

**Term-End Examination**

**December, 2017**

**MFW-025 : PRODUCT KNOWLEDGE / MATERIAL  
FOUNDATION**

*Time : 3 hours*

*Maximum Marks : 70*

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

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1. (a) Why does leather have high strength ?  
Explain.
- (b) With the help of neat sketches, define  
Insole and Heel. 5+5
2. (a) Write the ideal qualities required for insole  
board and shank board.
- (b) State the purpose of the following  
operations :
  - (i) Lacing
  - (ii) Scouring
  - (iii) Heat setting
  - (iv) Sole spotting 4+6

3. (a) What is Drafting ? Make a diagram of the drafting pulls.
- (b) Explain different types of leathers used in the footwear industry. 5+5
4. (a) What is the purpose of toe-puff and counter stiffener in a shoe ?
- (b) Write the requirements for the following :
- (i) Insole fore part board
- (ii) Insole seat board 5+5
5. Explain the following in brief : 5×2=10
- (a) Ancillary machines
- (b) Bar tacker machine
- (c) Strobel machine
- (d) Semi-automatic machine
- (e) Post bed double needle machine
6. (a) Draw a labelled diagram of an animal hide with different quality regions.
- (b) Write the dimensions (L × B × H) of cellulose board and shank board. 5+5

7. (a) With a neat sketch, explain the Oxford-Brogue shoe.
- (b) Why is leather superior to synthetic as a shoe material? 5+5
8. (a) What is Lasting? Draw a labelled diagram of Lasting Down construction.
- (b) What are the different types of lining materials used in footwear making? 5+5
9. (a) What do you understand by the word Sewing?
- (b) Explain the term Mean Forme. 5+5
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