

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

**Term-End Examination**

00430

**December, 2017**

**MFR-009 : FOOTWEAR LASTING & MAKING**

*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. What are the properties of polyurethane materials ? Explain two of them in detail. 4+6
  
2. Name different types of grinders used in footwear. Explain the varieties available for different shoemaking operations. 2+8
  
3. Name the three major bottom components of a footwear. List out the materials used for manufacturing such components with associated advantages. 3+7
  
4. Define the purpose of the heat setting operation during lasting operations, with detailed reasons. 10

5. What is the difference between Roughing and Scouring ? Explain various roughing and scouring tools used, with their purpose. 5+5
  6. Explain the different theories of adhesion. 10
  7. Draw a diagram of drafting pull and explain the importance of each drafting pull. 10
  8. What are the major aspects to be ensured for sole attaching in a stuck-on shoe ? 10
  9. Draw the diagram of the following constructions (clearly label each component) : 10
    - (a) Veldhoen construction
    - (b) Cemented construction
  10. Write down the sequence of operations for manufacturing a moccasin shoe. 10
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