

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

**Term-End Examination**

**June, 2017**

00248

**MFR-011 : POLYMER AND DMS SPORTS SHOE  
TECHNOLOGY**

*Time : 3 hours*

*Maximum Marks : 70*

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

1. Compare the properties of EVA and Rubber Soles. 10
2. Classify the polymers on the basis of structure and sources of raw materials. 10
3. What are the various applications of Polyurethanes in the footwear industry ? Discuss the advantages of Polyurethanes in detail. 10
4. What do you understand by polymer processing ? Discuss the compression moulding process in detail. 10

5. Write the ideal qualities of shoe soling materials in detail. 10
  6. Explain the direct vulcanization process for manufacturing DMS safety footwear with proper flow chart. 10
  7. What do you mean by coated fabrics ? Discuss the various types of coated fabrics used in sports shoe industry. 10
  8. Discuss the advantages and disadvantages of PVC as soling material, in detail. 10
  9. Explain the manufacturing process of rubber sole in detail. 10
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