

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

Term-End Examination

June, 2017

00238

**MFR-001(S) : PRODUCT KNOWLEDGE AND
MATERIAL FOUNDATION**

Time : 3 hours

Maximum Marks : 70

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

1. How do you measure the thickness of yarn ?
What is ply ? Discuss the impact of ply on stitching. Which type of (material and ply) thread is used for upper stitching ? 10
2. With the help of a flow diagram of the shoe making process, explain each operation of the process. 10
3. Describe various sizing systems used in footwear design and production. 10
4. Write down the three types of shoe accessories which can enhance the appearance of the shoe and provide comfort. 10
5. Explain TPR, PU and PVC. How do you differentiate between TPR, PU and PVC ? 10
6. Discuss the difference between injection moulding and vulcanization in footwear making. 10

7. What do you mean by direct and indirect construction in footwear production ? Give three examples of each. 10

8. Write short notes on the following : $4 \times 2 \frac{1}{2} = 10$

- (a) Hot Melt Adhesive
- (b) PU Film Coating
- (c) Reverse Side Suede Leather
- (d) Primer

9. (a) Define the following :

- (i) Lasting
- (ii) Drafting
- (iii) Roughing
- (iv) Pounding

(b) Explain why leather is the most suitable material for shoes.

(c) Draw a buff-hide and show the different quality regions with their names. 4+3+3

