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**MFR-003**

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

**Term-End Examination**

00083

**December, 2016**

**MFR-003 : INTRODUCTION TO FOOTWEAR  
MANUFACTURING**

*Time : 3 hours*

*Maximum Marks : 70*

**Note :**

- (i) *Attempt any seven questions.*
- (ii) *At least one question must be selected from each section.*
- (ii) *All questions carry equal marks.*

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**SECTION A**

1. Write down the detailed history of Indian ethnic footwear. 10
2. What are the basic shoe styles of closed footwear? 10

## **SECTION B**

- 3. Explain various parts and functions of a swing arm clicking press machine. 10**
- 4. What is the purpose of layout making ? How can it help to increase the productivity in the Cutting Department ? 10**
- 5. Draw a Goat skin diagram and show the following : 10**
  - (a) Quality regions**
  - (b) Line of tightness and stretch**

## **SECTION C**

6. How can we classify the needle ? Explain different types of needle systems with diagram. 10
7. Explain the physical properties of thread. How will you identify the natural and the synthetic thread ? 10
8. How many types of feeding systems are found in stitching machines used in footwear ? Write down at least ten important parts of a post-bed stitching machine and their functions. 10

## SECTION D

9. Define shank and write the materials which are used for making shank. Also discuss about the different designs of steel shank. 10

10. A factory manager gives instructions to a cutter to cut men insole with the following sizes and quantities :

6/20, 7/40 and 8/40

The cutter went wrong and cut the insole board with the following sizes and quantities :

6/25, 7/5 and 8/75

He cut the shank board as per requirement.

Using the above information answer the following questions : 10

- (a) What steps should be taken by the factory manager to complete the above order ?

There is very little stock left in the store.

- (b) Calculate how many number of extra pairs should be cut and for which sizes.

- (c) Suggest three control measures to avoid such mistakes in the production of insole.
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