

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

Term-End Examination

June, 2017

00461

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

Time : 3 hours

Maximum Marks : 70

Note : All questions are compulsory.

1. Differentiate between Model Last and Factory Last. 3
2. What are the main foot abnormalities ? Explain any two with the help of examples. 3
3. Explain slip-on shoes. 3
4. Fill in the blanks. 5×1=5
 - (a) Length increment from one size to another in English size system is _____ mm.
 - (b) For making sandals we use _____ last.
 - (c) French sizing system works on _____ .

- (d) There are _____ bones present in the human foot.
- (e) _____ is the term used for the development of the gristle-like cartilage into harder bone.
5. State whether the following statements are *true* or *false* : 5×1=5
- (a) Leather is a breathable material.
 - (b) Chrome tanning is a slow process.
 - (c) Leather has poor thermal resistance.
 - (d) Butt is the best part of leather.
 - (e) Hide is the outer covering of bigger animals.
6. Explain the suitability of leather as a shoe material. 3
7. Draw a labelled diagram of a cow hide with different quality regions. 3
8. Explain the following in brief : 10×2=20
- (a) Ancillary machine
 - (b) Bar tacker machine
 - (c) Strobel machine
 - (d) Semi-automatic machine
 - (e) Post-bed double-needle machine
 - (f) Flat-bed single-needle machine

- (g) Thread density
- (h) Slip stitching
- (i) Print-through
- (j) Shade variation
9. Write five important requirements for the following : $2 \times 1 \frac{1}{2} = 3$
- (a) Insole forepart board
- (b) Insole seat board
10. Write the dimensions (L × B × H) of cellulose board, shank board and steel shank. 3
11. Define sole and insole. 3
12. What is drafting ? Make a diagram of the drafting pulls. 5
13. What is the purpose of a toe-puff and counter stiffener in a shoe ? Which types of toe-puffs and counter stiffeners are most appropriate for a hand lasted closed footwear ? 5
14. Why does leather have high strength ? Explain in brief. 3
15. Explain different types of leather which are used in the footwear industry. 3
-