

M.Sc. FOOTWEAR TECHNOLOGY (MSCFWT)

00465

Term-End Examination

June, 2014

**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. 3
3. Explain Slip-on shoes. 3
4. Fill in the blanks : 1×5=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 in the human foot.

(e) _____ is a term used for the development of the gristle-like cartilage into harder bone.

5. State whether the following are *true* or *false* : $1 \times 5 = 5$

- (a) Leather is a breathable material.
- (b) Chrome tanning is a slow process.
- (c) Leather has got 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 shoe material. 3

7. Draw a labelled diagram of a cow hide with different quality regions. 3

8. Explain the following : $2 \times 10 = 20$

- (a) Ancillary machines
- (b) Bar tacker m/c
- (c) Strobell m/c
- (d) Semi-automatic m/c
- (e) Post bed double needle m/c
- (f) Flat bed single needle m/c
- (g) Puckering of threads
- (h) Slip stitching
- (i) Print through
- (j) Shade variation

9. Write five important requirements for the following : $1\frac{1}{2} \times 2 = 3$
- (a) Insole fore part 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 toe-puff and counter stiffener in a shoe ? Which type of toe-puff and counter stiffeners are most appropriate for a hand lasted closed footwear ? And why ? 5
14. Explain why leather has high strength. 3
15. Explain different types of leathers which are used in footwear industry. 3
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