

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

Term-End Examination **00332**
December, 2011

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

Time : 3 hours

Maximum Marks : 70

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

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1. (a) State whether the following sentence is *true* or *false* : (*Any four*). **4x1=4**
- (i) Crimping is done to facilitate lasting in case of Moccasin type of slippers mostly.
 - (ii) Continental heel has usually lesser curve in the back line than the Louis heel.
 - (iii) Hollowness in the comb of a last often creates problem for quarters to grip the foot firmly and hence lasts are much thicker at this part.
 - (iv) Overlap seam is joining two components of upper by a seam along the edges which is then opened out and flattened.
 - (v) A corn is the bubble on the skin filled with fluid.

(b) Fill in the blanks : (*Any three*) 3x1=3

- (i) The bottom of the last is called _____.
- (ii) _____ is the Unit of measurement of sole thickness.
- (iii) _____ arch is only apparent when there is no weight on the forepart.
- (iv) TPU is the abbreviation of _____.
- (v) In size stick foot measurement both feet are measured with _____ and _____.

2. Multiple choice : (*Any seven*) 7x1=7

(a) Tendons :

- (i) Are soft tissues made up of materials like keratin. And attach bones.
- (ii) Stabilize the joints.
- (iii) Provide stabilization to the foot and allow the foot to move up and down.
- (iv) None of these are correct statements.

(b) Some facts about girth :

- (i) As a general rule there are two girth grades.
- (ii) The amount of girth grade will vary and depends upon type of features to be made on last etc.
- (iii) For adult's range size II onwards the girth grade is 6.35 mm.
- (iv) All are correct.

- (c) The steps to be taken while fitting a shoe on the foot and selling it to customer.
- (i) Two
 - (ii) Three
 - (iii) Five
 - (iv) Six
- (d) American woman's size 6s =
- (i) French 37
 - (ii) French 38
 - (iii) French 34
 - (iv) English 5
 - (v) None of these
- (e) The ratio of girth increment in children's range and adult range each :
- (i) $3/16$ inch / $1/4$ inch
 - (ii) $1/4$ inch / $3/16$ inch
 - (iii) $3/8$ inch / $1/4$ inch
 - (iv) None of these.
- (f) Boxed leather :
- (i) is corrected grain leather
 - (ii) is full grain leather with creases inward in two or three directions
 - (iii) is buff leather generally
 - (iv) None of these
- (g) Calcaneo means :
- (i) A form of cub foot with foot turn out
 - (ii) A form of cub foot with foot turn in
 - (iii) Cavo Varus
 - (iv) None of these.

- (h) Stitched shoe include :
- (i) Moccasin (ii) Pre-welt
 - (iii) String lasted (iv) None of these
- (i) Measurement at the joint for size 4c will be :
- (i) 7-1/2 inch (ii) 7-3/4 inch
 - (iii) 8 inch (iv) None of these
- (j) Advantage of a slip lasted shoe :
- (i) Extremely flexible
 - (ii) Very Comfortable
 - (iii) Very durable
 - (iv) All are correct

3. Answer the question in *one* line : (*Any seven*) 7x1=7

- (a) Define hyperidrosis
- (b) What is in sole ?
- (c) What is spring heel ?
- (d) What is the use of interlining ?
- (e) What is split ?
- (f) Define toe spring
- (g) Define Veldtcheon Construction
- (h) What is roughing ?
- (i) Define Look Stitch.
- (j) Define turn shoe.

4. Answer the questions in brief : 2+2+2+1=7
- (a) List out ten shoes fault and explain any two in brief.
 - (b) Discuss the difference between muscle ligaments and tendons.
 - (c) Discuss the function of merchandiser in brief.
 - (d) What do you mean by direct and indirect construction ? Give three examples.
5. (a) Convert 33 French sizes into English size using formula. 3+4=7
- (b) Name 03 type of shoe accessories, which enhance the appearance of the shoe and provide comfort.
6. Draw the flow diagram of shoes making process and explain each operation in brief. 7
7. (a) State whether *true* or *false* : (Any four) 4x1=4
- (i) Fail is a finely rubbed fabric used in interlining.
 - (ii) Burnish leather is glossy leather.
 - (iii) Porumatic breathes.
 - (iv) PU film coated leather is as good as synthetic material.
 - (v) Slink is a skin of young kid.

(b) Fill in the blanks : (*Any three*) **3x1=3**

(i) PUCF is _____.

(ii) Felts are generally prepared from _____ fibres.

(iii) In woven fabrics the threads of yarns are interlaced at _____ angle.

(iv) _____ leather has no pigmentation.

(v) If the leather is hairy, _____ it lightly before roughing.

8. (a) Write down the properties of threads. **3+4=7**

(b) What are the equipments and raw materials required in closing department ?

9. (a) Describe various types of leathers used for upper making. **3+4=7**

(b) Discuss various types of fabrics.

10. (a) Give a diagrammatic presentation of plain and twill. **3+4=7**

(b) Discuss various types of reinforcements.

11. (a) Name the three Companies each that are manufacturing insole board and shank board. **3+4=7**

(b) Write the dimensions (L.B.H.) of cellulose board and shank board.

12. Write the four different materials used for manufacturing soles. Also write the ideal qualities for soling material. **7**
