

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

Term-End Examination

June, 2011

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

Time : 3 hours

Maximum Marks : 70

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

1. (a) State whether the following sentences are True or False. (*Any four*) **4x1=4**
- (i) Last shortens with increased height of heel.
 - (ii) Nearly all footwear styles are adoptions of three basic designs.
 - (iii) A corn is a bubble on the skin filled with fluid.
 - (iv) The sling back shoe is based on a basic court shoe design.
 - (v) Overlap seam is joining two components of upper by seam along the edges which is then opened out and flatted.

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

- (i) _____ is the unit of measurement of sole length equating $\frac{2}{3}$ of 1 cm which is equal to _____ inch.
- (ii) Style with lightweight rubber sole and usually a canvas top is _____
- (iii) A good midsole of a sports shoe should be light, has excellent _____ property and should have the ability to _____ after every foot strikes.
- (iv) In size stick foot measurement both feet are measured with _____ and _____
- (v) The outside group of muscles is the two muscles which join the _____

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 stability to the foot and allow the foot to move up and down.
- (iv) None of these is correct statement

- (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 117 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 65
- (i) French 37
 - (ii) French 38
 - (iii) English 5
 - (iv) 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) Calcaned means :
- (i) A form of cub foot with foot turn out.
 - (ii) A form of cub foot with foot turn in.
 - (iii) Cave Varus
 - (iv) None of these.
- (h) Stitched shoe include.
- (i) Moccasin
 - (ii) Pre - welt
 - (iii) String taced
 - (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. One line answer questions. (*Any seven*) 7x1=7

- (a) What is spring heel ?
- (b) What is split ?
- (c) Define toe spring.
- (d) What is roughing ?
- (e) What is the use of interlining ?
- (f) Define lock stitch.
- (g) Define stitch on.
- (h) What is difference between inversion and exersion ?
- (i) List out various stitches of the foot.
- (j) List out the various major components to make sports shoes.

4. Short Answer Questions. 1+2+2+2

- (a) List out ten shoes faults 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) What changes take place in foot measurement when the foot bears body weight? Discuss in brief. **3+4**
- (b) Convert 33 French size into English size using formula. **7**
6. Draw the flow diagram of shoe making process and explain each operation in brief. **7**
7. (a) Fill in the blanks. (*Any four*) **4x1=4**
- (i) PUCF is _____
 - (ii) Felts are generally prepared from _____ fibers.
 - (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.
- (b) True or False? (*Any three*) **3x1=3**
- (i) Fail is a finely rubbed fabric used in interlining.
 - (ii) Burnish leather is glossy leather.
 - (iii) Poromeric breathes
 - (iv) P U film Coated leather is as good as synthetic material.
 - (v) Slink is a skin of young kid.

8. (a) What is the use of indirect reinforcement ? **3+4**
(b) Describe various types of leather used for upper making.
9. (a) Give a diagrammatic presentation of plain **3+4**
and twill.
(b) Discuss various types of fabrics.
10. (a) What is boating of top line ? Why does it **3+4**
occur ?
(b) Discuss various types of reinforcements.
11. (a) Write down the properties of threads. **3+4**
(b) What are the equipment's and raw materials required in closing department ?
12. (a) Explain different types of sewing machines **3+4**
used in closing department.
(b) Write the dimensions (L.B.H.) of cellulose board and shank board.
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