

B.Sc. FOOTWEAR TECHNOLOGY (BSCFWT)

Term-End Examination 00942

December, 2011

**BFW-035 : PRODUCT KNOWLEDGE / MATERIAL
FOUNDATION**

Time : 3 hours

Maximum Marks : 70

*Note : Attempt any ten questions in all. Five questions from
Section-A and Five questions from Section-B.*

SECTION-A

(Product Knowledge)

1. (a) State whether the following sentence is
True or False : **4x $\frac{1}{2}$ =2**
- (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.
- (b) Fill in the blanks : **1x5=5**
- (i) _____ is the Unit of measurement of sole length equating $\frac{2}{3}$ of 1cm 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, have, 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 :

7x1=7

(a) Tendons

- (i) Are soft tissues made up of material like keratin and attach bones.
- (ii) Stabilize the joints.
- (iii) They provide stability 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 grade will vary and depends upon type of features to be made on last etc.
- (iii) For adult's range size 11, onwards the girth grade is 6.35 mm.
- (iv) All are correct.

- (c) The step 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 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 direction.
 - (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 turn in
 - (iii) Cavo varus.
 - (iv) None of these

3. *One line* answer questions : 7x1=7
- (a) What is difference between inversion and eversion ?
 - (b) What is runner ?
 - (c) What is mulling ?
 - (d) Define hyperidrosis
 - (e) Define stuck - on
 - (f) What is roughing ?
 - (g) Explain in brief sock liner used in sport shoe.
4. Answer *any two* of the following : 2x3½=7
- (a) What do you mean by direct and indirect construction ? Give three examples.
 - (b) Convert 33 French size into English size using formula.
 - (c) Name 03 type of shoe accessories which enhance the appearance of the shoe and 03 which provide comfort.
 - (d) Discuss in brief the steps for measuring feet by 3D foot measuring device.
5. Draw the flow diagram of shoes making process 7 and explain each operation in brief.
6. Write short notes on (*any two*) : 2x3½=7
- (a) Moccassin
 - (b) Sales forecast in footwear merchandising
 - (c) Types of Last
 - (d) Difference between injection moulding and vulcanization.

SECTION-B

(Material Foundation)

7. (a) State whether the following sentence *True or False*. $4 \times \frac{1}{2} = 2$
- (i) Fail is a finely rubbed fabric used in interlining.
 - (ii) Burnish leather is glossy leather.
 - (iii) Poromeric breathes.
 - (iv) PU film coated leather is as good as synthetic material. •
- (b) Fill in the blanks : $1 \times 5 = 5$
- (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.
8. (a) Discuss various types of fabrics. $2 \times 3\frac{1}{2} = 7$
- (b) Give a diagrammatic presentation of plain and twill.
9. (a) Write the important requirement for insole seat board (shank board). $2 \times 3\frac{1}{2} = 7$
- (b) Write down the properties of threads.

10. Name the three different companies manufacturing insole board and shank board each. 7
11. Explain the different types of leather used in the footwear industry. 7
12. (a) Discuss why leather has a high strength ?
(b) What are the equipment's grinders and raw materials required in closing department ? $2 \times 3\frac{1}{2} = 7$
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