

**B.Sc. FOOTWEAR TECHNOLOGY (BSCFWT)**

**Term End Examination**

**June, 2011**

**00214**

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

*Time : 3 hours*

*Maximum Marks : 70*

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

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**1. Multiple choice (Select the correct alternative)**

(Answer *any seven* of the following) : **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 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) French 34
- (iv) English 5
- (v) None of these
- (e) The ratio of girth increment in children's range and adult range each.
- (i)  $\frac{3}{16}$  inch/ $\frac{1}{4}$  inch    (ii)  $\frac{1}{4}$  inch/ $\frac{3}{16}$  inch
- (iii)  $\frac{3}{8}$  inch/ $\frac{1}{4}$  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
- (iv) none of these

8. (a) Explain different types of sewing machines used in closing department.  $2 \times 3\frac{1}{2} = 7$
- (b) Write the dimensions (LoBoHo) of Cellulose board and Shank board.
9. (a) Write down the properties of threads.  $2 \times 3\frac{1}{2} = 7$
- (b) What are the equipment's grinderies and raw material required in closing department ?
10. (a) What is boating of top line ? Why does it occur ?  $2 \times 3\frac{1}{2} = 7$
- (b) Discuss various types of reinforcement.
11. (a) Give a diagrammatic presentation of plain and twitt.  $2 \times 3\frac{1}{2} = 7$
- (b) Discuss various types of fabrics.
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- (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)  $7\frac{1}{2}$  inch
  - (ii)  $7\frac{3}{4}$  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

2. One line answer question (Answer *any seven*)  $7 \times 1 = 7$

- (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 stuck - on.
- (h) What is difference between inversion and eversion ?
- (i) List out various arches of the foot.
- (j) Use out the various major components to make sports shoes.

3. Short answer questions (*any two*) :  $2 \times 3\frac{1}{2} = 7$

- (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.

4. Draw the flow diagram of shoes making process and explain each operation in brief. 7
5. Discuss the various sizing systems in brief. 7
6. (a) State whether the following sentences *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 :  $5 \times 1 = 5$
- (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.
7. (a) Write the four different materials used for manufacturing soles. Also write the ideal qualities for soling material.  $2 \times 3 \frac{1}{2} = 7$
- (b) Name the three companies each that are manufacturing Insole board and Shank board.