

**B.Sc. FOOTWEAR DESIGN AND
PRODUCTION (BSCFWP)****Term-End Examination****June, 2017****00744****BFR-034 : MANUFACTURING TECHNIQUE – I***Time : 3 hours**Maximum Marks : 70***Note :**

- (i) Attempt **seven** questions in all.
- (ii) All questions carry equal marks.
- (iii) Attempt at least **one** question from each section.

SECTION A

1. Define the following terms : $5 \times 2 = 10$
 - (a) Ball point
 - (b) Shoe sizing system
 - (c) Thong last
 - (d) Feather edge
 - (e) Footwear
2. (a) What is the use of lock stitch in derby stitching ?
(b) Explain the difference between back height and heel height. $2 \times 5 = 10$

SECTION B

3. What do you understand by Purchase Cost Variance? A shoe factory has received 15000 sq.ft. of Cow Full Grain Leather of TR-grade. The price quoted is ₹ 100 per sq.ft. After arrival of the leather the following results are observed on checking the lot :

Grade	Quantity (in sq.ft.)
A	4000
B	6000
C	4500

- Calculate the purchase cost variance in terms of profit (+) or loss (-) in rupees. 2+8=10
4. Explain in brief the term 'leather storage'. Explain the various factors affecting leather storage in detail. 3+7=10
5. What parameters should be followed by a purchase manager during procurement of upper leather for bulk production? Explain the various parameters in detail. 10

SECTION C

6. (a) Write about the thread twist with diagram. 5
(b) Write about the different methods to size a thread. 5
7. What is the use of cutting point needle in leather ? Explain the different types of needle points with diagram. 3+7=10
8. (a) Draw the diagram of a needle and explain its different parts. 5
(b) Classify needles on the basis of system with diagram. 5

SECTION D

9. What are the advantages and disadvantages of various soling materials that have been introduced in place of traditional leather? 10
10. How will you set a Travelling Head Cutting Press machine for a particular die which is used in footwear industry for making bottom components? 10
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