



DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY

UNIVERSITY EXAMINATION 2021/2022

YEAR ONE SEMESTER TWO EXAMINATION FOR THE DEGREE OF

MASTER OF SCIENCE IN LEATHER TECHNOLOGY

SLT 6106: ADVANCED FOOTWEAR TECHNOLOGY

DATE: 28TH JANUARY 2022

TIME: 10.00-01.00 P.M.

Instructions: Answer all the question

QUESTION ONE [15 Marks]

- a) Explain the application of plasticizer and softener for ingredient mixing for DVP construction [4 Marks]
- b) Mention the type of material used to make last for footwear manufacture and Give an reason for selection of best last for DVP and DIP construction [3 Marks]
- c) Define the following terms
 - i. Rubber crumb [1 Mark]
 - ii. Caliga [1 Mark]
 - iii. Clicker [1 Mark]
 - iv. Footwear [1 Mark]
- d) List out result produced by forepart lasting process [4 Marks]

QUESTION TWO [15 Marks]

- a) Briefly describe following seam process followed in sewing leather
 - i. Piped seam [2 Marks]
 - ii. Bonded seam [2 Marks]
- b)
 - i. Explain the preparation of footwear bottom for cemented construction [3 Marks]
 - ii. Mention the importance of roughening process in bottom construction [2 Marks]
- c) Explain the manual clicking process method [6 Marks]

QUESTION THREE [15 Marks]

- a) Describe the variation in leather before clicking for footwear manufacture [6 Marks]
- b) Explain the following upper construction are followed in footwear industry

- i. Oxford shoe [3 Marks]
- ii. Brogue shoe [3 Marks]

- iii. Court shoe [3 Marks]

QUESTION FOUR [15 Marks]

- a) Explain the importance of flash trimming in DVP construction [3 Marks]
- b) Explain the various component are used in footwear manufacture [6 Marks]
- c) Illustrate flowchart for sequence operation in DIP construction for Polyurethane sole [6 Marks]