



DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY

UNIVERSITY EXAMINATION 2021/2022

YEAR ONE SEMESTER ONE EXAMINATION FOR THE DEGREE OF

MASTER OF SCIENCE IN LEATHER TECHNOLOGY

SLT 6104 PRACTICAL TECHNIQUES IN LEATHER PROCESSING

Date: October 2021

Time: 3 Hours

Instructions: Answer All the question

QUESTION ONE [15 Marks]

- a) Describe the objective of soaking process [2 Marks]
- b) Give reasons for why old lime liquor are used in liming process [4 Marks]
- c) Define the following terms
 - i. Deliming [1 Mark]
 - ii. Puering [1 Mark]
 - iii. Shaving process [1 Mark]
- d) Name any four examples of preservative chemicals [2 Marks]
- e) List out method name for foam producing used in foam finishing process and give reason which method accepted in leather industry [4 Marks]

QUESTION TWO [15 Marks]

- a) Briefly describe how to differentiate between mineral or inorganic tanning material[4 Marks]
- b) Differentiate between organic and inorganic pigment [2 Marks]
- c) List any four cleaner technologies that can be used in soaking process [2 Marks]
- d) Name any four neutralization chemicals used in neutralization process [2 Marks]
- e) Mention the percentage of syntan and fatliquor required for upper leather [2 Marks]
- f) List the factor affecting the bating process [3 Marks]

QUESTION THREE [15 Marks]

- a) Outline the process recipe for manufacture of full white split crust from 1000kg of cow wet blue (Hint: 4.5square feet per skin) [7 Marks]
- b) With the aid of reason, mention the best raw material for manufacture of upper, garment and upholstery leather [3 Marks]
- c) List out the result outcome from application of cleaner technology [5 Marks]

QUESTION FOUR [15 Marks]

- a) Mention the reasons for storing hides and skin stored at the pickling stage [2 Marks]
- b) Write the pH for upper and garment manufacture [2 Marks]
- c) Describe the process recipe for manufacture of semi –chrome goat upper crust from wet salted goat skins .(Hint:15 square feet per skin) [11 Marks]