



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 6103 ADVANCE LEATHER PROCESS TECHNOLOGY

Date: January 2022

Time: 3 Hours

Instructions: Answer all the question

QUESTION ONE [15 Marks]

- a) Mention the application of desalted salt [2 Marks]
- b) Explain the general process description for upgradation technique [4 Marks]
- c) Describe the problem caused by tanning(tanning material) and delimiting(Nitrogen) for conventional process method [5 Marks]
- d) Define the following terms
 - i. Exotic leather [1 Mark]
 - ii. Up gradation technique [1 Mark]
- e) List two advantage and disadvantage of cooled air curing method [2 Marks]

QUESTION TWO [15 Marks]

- a) Explain why need advance technology in leather processing over conventional process method [5 Marks].
- b) Explain the grain pattern of Hippopotamus and ostrich skin [4 Marks]
- c) Mention the selection method for processing of crocodile skin [2 Marks]
- d) Name any four species of fish and snake exotic skin leather [4 Marks]

QUESTION THREE [15 Marks]

- a) Explain the application of enzymes in tanning and dyeing process [6 Marks]
- b) State the new technology in desalted process and its used for raw material type [3 Marks]
- c) With help of example show that water reduction in counter current soaking process [6 Marks]

QUESTION FOUR [15 Marks]

- a) State the source of VOC from tannery [3 Marks]
- b) Mention the two technique used for recycle of solvent from degreasing process [2 Marks]

- c) List any four example for high exhaustion chrome tanning chemicals
- d) With the aid of diagram explain the pickle-Tan loop system

[2 Marks]

[8 Marks]

