2.8 30808 THEORY OF LEATHER MANUFACTURE-I

UNIT-1 INTRODUCTION

1.1 History of leather manufacture and its uses.

UNIT-2 PROTIENS

- 2.1 Nature and types of proteins, physical and chemical composition,
- 2.2 Properties of hide proteins.

UNIT-3 RAW HIDES

- 3.1 Raw stock: Mainly used raw hides and skins, General structural conditions for raw hides, Skin defects
- 3.2 Anatomical structure of hides and skins.
- 3.3 Chemical composition and constituents of hides and skins.

UNIT-4 WATER QUALITY

- 4.1 Classification according to sources, ered Engineer 2ndin
- 4.2 Possible defects due to substances contained water.

UNIT-5 CURING AND PRESERVATION

- 5.1 Methods and chemistry of curing of hides and skins.
- 5.2 Merits and demerits of each method.
- 5.3 Code of practice for curing and preservation of cattle hides as per I.S. 7656(1995).

UNIT-6 PRETANNING OPERATIONS

6.1 Principles and objectives involved in (a) Soaking (b) Liming (c) DE liming (d) Bating6.2 (e) Pickling (f) DE pickling (g) Bleaching (h) Degreasing.

UNIT-7 TYPES OF TANNAGES

1.1 Introduction of vegetable tannage, mineral tannage aldehyde and Crome Tanning, oil tannage, etc.

UNIT-8 TYPES OF LEATHER

- 8.1 Chrom tanned leather, vegetable tanned leather, Aluminium tanned leather,
- 8.2 Zerconium, tanned leather, Oil tanned leather, Iron tanned leather, and Sulphur tanned leather.
- 8.3 According to the nature of finishes/products, Aniline leather, semi aniline tanned leather,
- 8.4 Portant leather, Corrected arain leather, Nuckbuck leather, Suede leather, Nappa leather, Upper
- 8.5 Leather, Uphalestry leather, Belting leather, Saddlery leather, Harness, Briddle leather.

UNIT-9 CLEANING PROCESSES:

- 9.1 Hair shaving process, Sulphide free unharing process,
- 9.2 Cleaner process in Beam House/Tan Yard Practices,
- 9.3 Role of enzymes of pretanning operation.

Reference Books:

- 1. An Introduction to the Principles of Leather Manufacture S. S. Dutta.
- 2. 2. Physical Chemistry Of Leather Making Krysztof Bienkiewicz .

