B. Tech.
(Sem. VI) Examination, 2006-07
POST TANNING & FINISHING OPERATION

Time : 3 Hours] [Total Marks : 100

Note : (1) Attempt all questions.
(2) All questions carry equal marks

1 Attempt any four parts of the following:
   (a) Explain in brief principles of colour chemistry.
   (b) Classify leather dyes
   (c) Write about vegetable tan liquor bleaching.
   (d) What are the methods of bleaching?
   (e) Briefly discuss colour machining.
   (f) Discuss different dyeing methods.

2 Attempt any four parts of the following:
   (a) What are emulsions?
   (b) What are the sources of oils and fats?
   (c) What is a fat-liquor and discuss mechanism of fat-liquoring.

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(d) What are advantages and disadvantages of synthetic fat-liquor application in leather fat-liquoring?

(e) What is acid value, sap. value, iodine value and HLB value of a fat-liquor?

(f) Discuss sulfation and sulfonation of oils.

3 Attempt any **two** of the following:

(a) How do you attempt to make a leather water proof?

(b) Discuss theory of film formation.

(c) Discuss the mechanical operations involved in finishing.

4 Attempt any **two** parts of the following:

(a) Discuss different types of finishes.

(b) Prepare Nitrocellulose lacquer.

(c) What are silicone emulsions?

5 Attempt any **two** of the following:

(a) Describe casein and waxes.

(b) Discuss pigments

(c) What are the objectives of finishing?