B. Tech.
(Sem. VIII) Examination, 2006-07
LEATHER TRADES ENGG.

Time : 3 Hours] [Total Marks : 100

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

1 Attempt any four parts of the following:
(a) Discuss clutch mechanism.
(b) Describe crank slider mechanism.
(c) Discuss cams.
(d) What are helically bladed cylinders?
(e) Write in brief about Balancing and vibration.
(f) Discuss bearings.

2 Attempt any four parts of the following:
(a) Describe hydraulic mechanism.
(b) Write about air compressors
(c) What is a Buffing machine and dust control equipment?
(d) What are area measuring machines in leather industry?
(e) Discuss “Spray machines” in leather industry.
(f) Write about drying.

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3 Attempt any two parts of the following:
   (a) What are beam house operations? Describe in detail Tannery liming and dyeing drums, material of construction and its sketch. What is a shaving and buffing machine?
   (b) Describe in detail the construction of a tannery splitting machine with neat sketch. What are pits and paddles?
   (c) Describe a Hydraulic Press

4 Attempt any two parts of the following:
   (a) Discuss internal transport in a tannery
   (b) What safety precautions you need to take in a leather manufacturing unit?
   (c) Write about drainage and disposal in tanneries.

5 Attempt any two of the following:
   (a) Discuss maintenance of Tannery machinery.
   (b) Write about electrical, steam and waterlines arrangement for a modern tannery.
   (c) Discuss automation and mechanisation of tanneries.