B.Tech IV sem. Leather Technology Mid semester examination-2019

Subject: Introduction to Leather technology Code: LT-071402

Time :2 Hours

Max. mark:20

Q.1 Answer the following	ing objective question -		
(I) What is the	value of pH in liming proc	ess?	
(a) 7	(b) 9	(c) 10	(d) 12
(II) Which chem	nical is used for unharing	process?	
(a) NaCl	(b) CH ₃ COOl	H (c) Na_2S	(d) $Ca(OH)_2$
(III) What is th	e value of pH of soaking p	process?	
(a) 7	(b) 9	(c) 10	(d) 12
(IV) Water cont	tent of hide and skin is		
(a) 20-30%	(b) 40- 50 %	(c) 60-70 %	(d) 80-90 %
(v) Protein cont	ent of hide and skin are-		
(a) 2-8%	(b) 8-14%	(c) 19-32%	(d) 34-50%

Q .3 Discuss in detail the chemical constituents of hides and skins.

Q. 5 What is current status of leather industries in India.

Q.4 State in detail the present scenario of livestock population of animal in India?

Model answer.

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Ans. 1

I. D

II.C

III. A

IV. C

V.c.

Ans. 2

Defects of Hides and Skins

Ante-mortem

- 1. Poor substance
- 2. Sore marks or abcesses
- 3. Barbed wire scratches
- 4. Rub marks, horn rake
- 5. Brand marks
- 6. Goad marks
- 7. Yoke marks
- 8. Ticks, fleas
- 9. Scabies
- 10. Pox
- 11. Warble fly or grubs
- 12. Cockle
- 13. Borsatis & Danas
- 14. Ringworm scars
- 15. Soiling by dung and urine

Post-mortem

- 1. Flaying defects
- 2. Inadequate curing
- 3. Defects due to late-curing
- 4. Curing with unsuitable salt
- 5. Faulty drying
- 6. Faulty storage
- 7. Crack-grain
- 8. Vulture scratches
- 9. Poor pattern

Jomposition of hides	and	skins:				
(i) Water		60% to	, 7	0⊈ on	the gree	:n w1.
Proteins		19.2% to	32.7	5%		
(3) Fats		1.5% to	12.2	5%		••
(4) Mineral matters		0.36% to	0.	5%	••	••
(5) Colouring pigmen	ts	Traces.				

The percentage of these materials vary from skin to skin depending upon the age, species, breed and health of the animals.

Water :-

The water is present in hides and skins in two forms:

- (a) Free water and
- (b) Bound water.

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Ylam)

cattle. The total cattle contailedion is around 37.28% of the total Unestock popular.

- The Potal no of cattle in the country as per 2012

Census is 190, 90 million numbers.

N's

Buffalo > The total buffalo contibutes around 21.23% of the total Unestock population.

- The hotal 108.7 million

Sheeps 12.71% 65 million

26.40% of the total line stock.

2012 - 135.17

Unestock

-

Cattle	world	amtia	andia's there's	Panis
	1367	100.9	b 14%.	!
Buffalo	171	95	56.0 %	ı
Sheep	770	127	16.0	2
oneop	1022	51	5.0	IV

The mojor species of brustock that subby hidesand skins are eattle, buffolo, good and sheeps.

Production of Hides order

1	woold	andia	9molioshoal
Cattle Hides	274	2.3	& y.
Buffalo	36	28	78%
Cook	347	82	24×
sneep	460	30	760471/0

the abone data clearly show that andia commands signable global share in buffalo hides and goot skin. In terms of area, andia brockness 2 billion sq. H buf leather which roughly accounts for about 10% of global production

Stadical analysis of leather Industraly.

are 2091 tannews in the country out of which 1803 units are in the small scale sector and 288 one DGTD units.

Tamil Nadu - 934 unit)

west bend - 538" | accounts for 89 percent of tannales in the country.

- only 234 (13%) were set up before 1950.

126 (7x) pertwen 1951-60

325 (18%) " 1961-72

451 (26%) - 1973-80

667 (37%) — 1381-88

- In other words 62% of the excelsting units were set up after 1973.

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