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Fourth Semester Bachelor of Science (B.Sc.) Examination

INDUSTRIAL CHEMISTRY

Paper- I (ICH 401)

iMax. Marks: 50

- : (1) All five questions are compulsory and carry equal marks.
 - (2) Give near and well tabelled diagram wherever necessary.
- (A) Explain the hot dipping process of galvanization.
 - (B) Write the various applications of electroplating of metals. 5

OR

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(C)	Explain the impregnated coating.	$2\frac{1}{2}$
(D)	What is metallic coating? Give examples.	2 1
(E)	Explain the metal cladding with suitable exan	iples.
		$2\frac{1}{2}$
(F)	Give the preparation of electroplating material	using
	alkalı cleaning process.	2 ≟

Time: Three Hours!

(A)	Explain the classification in the paints on the basis of their applications.
(B)	Explain the ingredients ${}^{3}\!\mathbf{f}$ enamels with suitable examples.
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(C)	Explain the process of manual enture of enamels. $2\frac{1}{2}$
(D)	What are the characteristics pn perties and uses of white lead pigmer is? perties and uses of $2\frac{1}{2}$
(E)	What are various industrial apple ations of paints? $2\frac{1}{2}$
(F)	What are the requirements of $\mathfrak{g}\mathfrak{t}$ od paint? $2\frac{1}{2}$

(A) Explain the process of extraction and purification of juice in the manufacture of cane su tar. 5

(B) Explain the preparation of hides for \ unning in the manufacture of Leather. 5

OR

- (C) Describe the method of estimation of s \cdot gar. $2\frac{1}{2}$
- (D) Explain the diffusion principle in manufa turing of cane sugar from beet root. 2 ½
- (E) Explain the vegetable tanning with suitable sample.
- (F) Write short notes on oil tanning. 2 ½

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72.	(A) www.denatronomings.com/ductor. Give the types of semiconductors.
	(B) Explain in detail about polyethylene which is synthetic dielectric material.
	OR
	(C) Give the types of insulating material. $2\frac{1}{2}$
	(D) Write the difference between conductors and semiconductors.
	(E) Explain the superconductors on the basis of their properties. 2 ½
	(F) Give the dielectric properties of insulating material. $2\frac{1}{2}$
5.	Attempt any Ten of the following:
	 Write any two metals used for electroplating process.
	(ii) What is electroforming?
	(iii) What do you mean by spray metal coating ?
	(iv) What are luminuous paints?
	(v) Why pigments are used for making paints?
	(vi) Give the examples of paint removers.
	(vii) Give the test for sugar.
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- (viii) What is raw sugar ?
- (ix) Define Leather.
- (x) Give the examples of semiconductor.
- (xi) What are n-type semiconductor?
- (xii) What do you mean by degenerate semiconductor?

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