

(i) Printed Pages : 3

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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B.A./B.Sc. (General) 1st Semester

1125

INDUSTRIAL CHEMISTRY

Paper-A : Industrial Aspects of Chemistry

Time Allowed : Three Hours]

[Maximum Marks : 75

Note :- (1) Attempt **five** questions in all, selecting **one** question from each Unit and question no. 1 is compulsory.

(2) All questions carry equal marks.

1. (a) Name the Oil Fractionizing Processes.
- (b) Write the uses of Coal.
- (c) Write the chemical formula and structure of cellulose.
- (d) State different metallurgical operations.
- (e) Write the uses of aluminium.
- (f) What are Zeolites ?
- (g) What is Adsorption ?
- (h) Name some Surfactants.

(i) State the role of Catalysts.

(j) Write the uses of Dextrose.

1.5×10=15

UNIT-I

2. Explain the process of crude oil refining along with a neat diagram.
Also mention the uses of different oil products. 15

3. Write in detail about the following :

(a) Coal distillation

(b) Hydroforming and Isomerization of Oil.

15

UNIT-II

4. Explain the production process of cellulose acetate along with a neat flow diagram. 15

5. (a) Discuss in brief about the manufacturing of Oxalic Acid.

7.5

(b) Write a note on "Pulverizations and Calcinations".

7.5

UNIT-III

6. Discuss the extraction processes of iron and silver.

15

7. (a) Write the industrial importance of alumina and silicates. 8
(b) Mention the different types of zeolites and their uses. 7

UNIT-IV

8. Write a note about the industrial importance of:
- (a) Emulsions
(b) Micelles. $7.5 \times 2 = 15$
9. (a) Briefly discuss about different adsorption isotherms. 10
(b) Discuss different factors which affect heterogeneous reactions. 5