Seat No.: Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV(New) • EXAMINATION - WINTER 2016

Subject Code:2140506

Date:21/11/2016

Subject Name:Chemical Process Industries -II

Time: 02:30 PM to 05:00 PM Total Marks: 70

Instructions:

- Attempt all questions.
- Make suitable assumptions wherever necessary.
- Figures to the right indicate full marks.

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Q.1		Short Questions	14
	1	Full form of PVC of paint is	
	2	What do you mean by the term Refining of Sugar?	
	3	Write the complete chemical reaction for Nitrobenzene manufacturing.	
	4	Define the term: Dye.	
	5	What do you mean by Alligatoring in case of paint failure?	
	6	Structural formula of Aspirin is	
	7	Name two methods for the production of TiO ₂ .	
	8	Carbon black is an example of	
	9	Write any two names of sugar derivatives.	
	10	Give the chemical & structural formula of Anthraquinone.	
	11	The function of insulin in human body is to	
	12	Other name of Vitamin C is	
	13	Name any two Antibiotic drugs.	
	14	Ethanol can be manufactured by process.	
Q.2	(a)	Describe in brief about varnishes.	03
Q.2	(b)	Write in brief about constituents of paints.	0.5
	(c)	Starting with flow sheet, describe the production of Titanium dioxide (white	07
	(0)	pigment) by chloride process.	0 /
		OR	
	(c)	Explain in detail: Manufacturing of Aspirin with neat flow diagram.	07
Q.3	(a)	Write in brief about any two green pigments.	03
V.3	(b)	Explain in brief about vitamins.	03
	(c)	Discuss the production process of aniline in detail.	07
	(c)	OR	U /
Q.3	(a)	Explain in brief about Phenol barbital	03
4.5	(b)	Discuss various types of beer.	0.5
	(c)	Explain the manufacturing of penicillin in detail.	07
Q.4	(a)	What is fermentation operation? Explain in brief.	03
Ų.4	(a) (b)	Write a note on importance of Insulin in human body.	0.5
	(c)	Discuss the manufacturing of ethanol by fermentation route.	07
	(c)	OR	07
Q.4	(a)	Write a note on vat dyes in brief.	03
Ų.4	(b)	Describe inversion of sugar.	03
	(c)	Describe in detail about manufacturing of paint.	07
O.F	` '	Enlist various applications of Nitrobenzene.	
Q.5	(a)		03
	(b)	Classify drugs based on its applications.	04
	(c)	Starting with the reaction, explain manufacturing process of H-acid.	07
0.5	(0)	OR	0.2
Q.5	(a)	Describe various sugar derivatives in brief.	03
	(b)	Discuss various applications of ascorbic acid.	04
	(c)	Describe the manufacturing of sugar from sugarcane with neat flow sheet.	07
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