

## GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- IV (New) EXAMINATION - WINTER 2019

<b>BE - SEMESTER- IV (New) EXAMINATION - WINTER 2019</b>			
Subject Code: 2140506 Date: 12/12/2019			
Subject Name: Chemical Process Industries -II			
	Time: 10:30 AM TO 01:00 PM Total Marks: 70		
Instructions:			
msu	uuu	1. Attempt all questions.	
		<ol> <li>Make suitable assumptions wherever necessary.</li> </ol>	
		3. Figures to the right indicate full marks.	
		0 0	
Q.1	<b>(a)</b>	What is Antibiotics? Give two names of antibiotics.	03
	<b>(b)</b>	Describe inversion of sugar.	04
	(c)	Describe the process for mfg. of Aniline with neat sketch & its properties.	07
Q.2	<b>(a)</b>	What is paint and P.V.C of paint?	03
	<b>(b)</b>	Explain the importance of lacquers and varnishes	04
	(c)	What is dye? Classify dye based on its application?	07
		OR	
	(c)	Write short note on: Role of Vitamins in human life.	07
Q.3	<b>(a)</b>	Write a note on vat dyes in brief.	03
	<b>(b</b> )	Write a note on importance of Insulin in human body	04
	(c)	Describe the manufacturing of sugar from sugarcane with neat flow sheet.	07
0.2	(-)	OR	0.2
Q.3	(a)	What are beer, wine and distilled liquors?	03
	(b)	What are industrial coatings? Explain its applications	04
	(c)	Starting with chemical reactions & neat sketch explain in detail the mfg. process of	07
0.4	$(\cdot)$	H-Acid	03
Q.4	(a) (b)	Enlist various applications of Nitrobenzene	03
	(b)	List the various design principles followed for sterile operations in fermentation industries.	04
	(c)	Write in brief: Classification of drugs based on its application.	07
04	<b>(a)</b>	OR Discuss various applications of Ascorbic acid	02
Q.4	(a) (b)		03 04
	(b)	Explain the preparation of barbital.	
	(c)	Discuss the manufacturing process of Chrome Blue-Black dye with the help of suitable flow diagram.	07
05	<b>(a)</b>		03
Q.5	(a) (b)	Discuss about Printing inks and its application Discuss various types of beer	03 04
	$(\mathbf{b})$		04 07
	( <b>c</b> )	Explain manufacturing process of vinyl sulphone with a neat flow diagram. <b>OR</b>	07
Q.5	(a)	Define: drugs , Auxochrome, Chromophore	03
Q.J	(a) (b)	What is fermentation operation? Explain in brief.	03 04
	(D) (C)	What is pigment? Describe manufacturing of Titanium dioxide (white pigment)	07
		what is prement: Describe manufacturing of Thannun dioxide (white pignent)	07

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