

**GUJARAT TECHNOLOGICAL UNIVERSITY**
**BE - SEMESTER-IV(NEW) – EXAMINATION – SUMMER 2019**
**Subject Code:2140506**
**Date:15/05/2019**
**Subject Name: Chemical Process Industries -II**
**Time:02:30 PM TO 05:00 PM**
**Total Marks: 70**
**Instructions:**

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

		MARKS
<b>Q.1</b>	(a) Explain Inversion of sugar	<b>03</b>
	(b) Short note on Acid dye in brief	<b>04</b>
	(c) Describe the manufacturing of sugar from sugarcane with neat flow sheet	<b>07</b>
<b>Q.2</b>	(a) What is paint and PVC of paint	<b>03</b>
	(b) How barbitol is prepared? Explain by giving chemical reaction	<b>04</b>
	(c) Explain manufacturing process of citric acid with flow sheet	<b>07</b>
	<b>OR</b>	
	(c) By giving neat flow diagram Explain the manufacturing process of paint.	<b>07</b>
<b>Q.3</b>	(a) Define chromophore and auxochrome	<b>03</b>
	(b) Explain the role of constituents present in paint	<b>04</b>
	(c) How Aniline is prepared from Nitrobenzene? Explain with neat sketch	<b>07</b>
	<b>OR</b>	
<b>Q.3</b>	(a) What is Industrial coating? Explain its Application	<b>03</b>
	(b) Discuss structure of dye	<b>04</b>
	(c) Discuss manufacturing process of Industrial alcohol by aerobic fermentation process	<b>07</b>
<b>Q.4</b>	(a) List out Various separation route to produce absolute alcohol	<b>03</b>
	(b) What are pigments? Write in brief on Red pigments?	<b>04</b>
	(c) Discuss manufacturing process of H-acid with flow sheet	<b>07</b>
	<b>OR</b>	
<b>Q.4</b>	(a) Explain “vitamins”	<b>03</b>
	(b) Classify drugs base on its application	<b>04</b>
	(c) Explain manufacturing of aspirin with suitable flow sheet	<b>07</b>
<b>Q.5</b>	(a) Explain application of bagasse	<b>03</b>
	(b) What is fermentation operation? Explain in brief	<b>04</b>
	(c) Classify dye based on its application	<b>07</b>
	<b>OR</b>	
<b>Q.5</b>	(a) Explain two method for used to prepare Titanium dioxide	<b>03</b>
	(b) What is Antibiotics? Give examples	<b>04</b>
	(c) Discuss manufacturing process of penicillin with flow sheet	<b>07</b>

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