

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV (NEW) EXAMINATION - WINTER 2018 Subject Code:2140506 Date:01/12/2018			
Time: 02:30 PM TO 05:00 PM Total Mar			Iarks: 70
Instru			
		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks. Draw neat diagram where necessary.	
	7.	braw heat diagram where necessary.	MARKS
Q.1	(a)	Write the application of vat dyes by giving example.	03
	(b)	Explain Nitroso dyes with proper example.	04
	(c)	How Nitro benzene is prepared from benzene? Explain with flow diagram.	07
Q.2	(a)	Give a list dye-intermediates derived from benzene.	03
	(b)	Give the uses of (a) Disperse dyes (b) Fluorescent dyes	04
	(c)	Discuss method of production of Indanthrene yellow dye. OR	07
	(c)	Describe in detail manufacture of H-acid from KOCH acid with chemical reaction and neat clean flow diagram.	07
Q.3	(a)	Write complete chemical reaction for manufacture of vat dyes.	03
	(b)	Discuss structure of dye.	04
	(c)		07
		chemical reaction and neat & clean flow diagram.	
0.1	(.)	OR Circuit and a facilitation and for the last scale of	0.2
Q.3		· · · · · · · · · · · · · · · · · · ·	03 04
	(b)	±	04 07
	(c)	What is an antibiotic? Discuss manufacture of penicillin with neat &clean flow sheet.	U7
Q.4	(a)	Write complete chemical reaction for Riboflavin.	03
	(b)	Write stricture formula: (a) Hexyl resorcinol (b) codeine	04
	(c)	Explain beer manufacture with a suitable flow diagram. OR	07
Q.4	(a)	List the various separation routes to produce absolute alcohol.	03
	(b)	What is inversion of sugar? How it can be prevented?	04
	(c)	With a detailed flow sheet explain the manufacturing process of sugar from sugarcane.	07
Q.5	(a)	Explain in brief: Various ways of bagasse disposal.	03
	(b)		04
	(c)	What is fermentation? Discuss manufacture of industrial alcohol by aerobic fermentation process.	07
		OR	
Q.5		•	03
	(b)		04
	(c)	Explain the manufacturing process of Lithopone with proper diagram.	07
