Seat No.:			ent No	
	GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-IV (NEW) - EXAMINATION – SUMMER 2017			
Subject		e: 2142809	Date: 08/06/2017	
•		e: Chemistry of Intermediates & Dyes		
Time: 10):30	AM to 01:00 PM	Total Marks: 70	
Instruction				
		mpt all questions. e suitable assumptions wherever necessary.		
		res to the right indicate full marks.		
	1 154	tes to the right indicate rail marks.	MARKS	
Q.1		Short Questions	14	
-	1	Name some primaries used in Intermediates.		
	2	Which Unit process is used for imparting solubility to	Intermediates.	
	3	Which groups are introduced during Halogenation.		
	4	What is the function of Acid during Diazotisation.		
	5	How do you check excess of acid during Diazotisation.		
	6	Which is the popular method for manufacturing Phenol		
	7	What are Colorless dyes.		
	8	Which dyes are used for paper coloration?		
	9	Enlist meta directing groups in benzene series.		
	10	What are carcinogenic dyes?		
	11	How many amines are listed in forbidden category?		
	12	Name some Auxochrome & Chromophores.		
	13	When Germen Ban came into effect.		
	14	Where Friedal Crafts are used.		
Q.2	(a)	State the importance of Colour-Index	03	
		Explain Bathochromic Effects.	04	
	(c)	Write note on Nomenclature of Dyes	07	
		OR	~-	
0.1	(c)	Give Destructive distillation of Coal	07	
Q.3		Give importance of Friedal-Craft's reaction	03	
	(b)	Describe Nitration of Naphthalene	04 07	
	(c)	Write note on Sulphonation Reaction OR	07	
Q.3	(a)	Enumerate different methods of Oxidation	03	
Q.3	(a) (b)	Explain any one method of Oxidation.	03	
	(b) (c)	Show synthesis of different Intermediates from it.	07	
Q.4	(c) (a)	Differentiate Unit operations and Unit processes	03	
2.1	(b)	What is meant by Desulphonation.	04	
	(c)	Obtain some important intermediates from it.	07	
		OR		
Q.4	(a)	Which agents are used in Bucherer reaction	03	
	(b)	Which important products are obtained from this.	04	
	(c)	Describe the synthesis of Amino -G acid and Amino- J	07	
		acid using this reaction.		
Q.5	(a)	Explain the Importance of Orientation rules.	03	
	(b)	Classify groups into different category in Benzene	04	
		series.		
	(c)	Give Non-Textile uses of Dyes	07	
~ -		OR	0.2	
Q.5	(a)	Give definition of Chromogen.	03	
	(b)	Show synthesis of any one Direct dye.	04	
	(c)	Explain Witt's Theory of Colour and Constitution.	07	