Coot No.	Enrolment No
Seat No.:	Enrolment No.

Subject Code: 162802

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI • EXAMINATION - SUMMER • 2014

Date: 21-05-2014

Subject Name: Analytical Textile Chemistry- II			
		0:30 am - 01:00 pm Total Marks: 70	
Instru			
		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
0.1	(a)	Answer the following OBJECTIVE questions:	07
V		Expand R.I.M.I. to its full form.	٠.
		State the properties of degraded cellulose.	
		Non-volatile content of substance gives idea about its purity. True/False. Justify the	
		answer.	
	iv.	Show microscopic appearance of rice starch.	
	v.	Name the main ingredient used to find saponification value.	
		What does a pocket refractometer used for?	
		Thymol blue in presence of HCl gives colouration with anionic surfactant.	
	(b)	What are carriers used for? Describe various methods to evaluate carriers and illustrate few names of it.	07
Q.2	(a)	Answer the following OBJECTIVE questions:	07
	` '	reagent is used to determine % purity of hydro.	
	ii.	Define Molar extinction co-efficient.	
	iii.	The main ingredient used for determination of phosphrous content is	
	iv.	Differentiate between active content and non-volatile content of any substance.	
		instrument is widely used to measure strength of dyes.	
		PVA produces colour in the solution of Borax and Iodine.	
		Enlist any two sequestering agents.	
	(b)	Illustrate few printing thickeners. Explain various general test methods to evaluate	07
		them.	
	(b)	OR Explain the test method to evaluate phosphrous content of finished textile with its	07
	(b)	Explain the test method to evaluate phosphrous content of finished textile with its significance and principle involved.	U/
Q.3	(a)	Explain the process to determine carboxyl content of oxycellulose with significance,	07
Q.J	(a)	principle and chemical reactions involved.	07
	(b)	State the main function of mild oxidizing agent with few examples. Describe its	07
	(~)	evaluation method with principle involved.	٠.
		OR	
Q.3		Discuss the following analytical methods in context to starch:	14
		a) Colour b) Fineness c) Purity d) Cold Soluble Matter	
Q.4		Describe the methods for evaluation of leveling agents used for cotton as well as for	14
		synthetics. OR	
Q.4		Enumerate various test methods for complete analysis of sizing softeners.	14
Q.5	(a)	Explain the method for determination of copper number in depth.	07
~	(b)	Elucidate the method for quantitative evaluation of Sodium alginate.	07
		OR	<i>31</i>
Q.5	(a)	Give the complete quantitative and qualitative analysis of Polyethylene emulsions.	07
	(b)	Enumerate various methods to determine dye strength. Discuss any one in detail.	07
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