Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. E. - SEMESTER – III • EXAMINATION – WINTER 2012

Subject code: 132801 **Date: 07-01-2013**

Subject Name: Textile Design & Colour

Time: 10.30 am – 01.00 pm **Total Marks: 70**

Instructions:

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

Q.1	**(a)**	Answer the following OBJECTIVE questions:	**07**
	1.	What is meant by colour according to a Physicist?	
	2.	How can Magenta colour be produced?	
	3.	Source of light affects the result of colour perception. True/False. Justify the answer.	
	4.	Show the spectral power distribution curve of Candle light.	
	5.	State the main difference between Additive and Subtractive colour mixing.	
	6.	The lightness value of perfect black light is _____.	
	7.	Name the main parts of Observer which are responsible for colour viewing.	
	(b)	State the importance of colour mixing. Discuss in detail about additive colour mixing with appropriate examples.	**07**
Q.2	**(a)**	Explain Rhythm & Harmony with suitable Designs.	**07**
	(b)	Elucidate the complete process for perception of colour with neat sketch.	**07**
		OR	
	(b)	Write an assay on Metamerism with its broad classification.	**07**
Q.3	**(a)**	Explain "Units of Design" with suitable illustrations.	**07**
	(b)	Draw the following designs: i. Showing freedom of closeness using any two motifs ii. Combination of straight line, circle and wavy motif	**07**
		OR	
Q.3	**(a)**	Explain with suitable designs "any three" methods of composing all over textile design.	**07**
	(b)	By giving suitable examples of designs, explain in detail two principles of design, "repetition" and "balance".	**07**
Q.4	**(a)**	Enlist various methods for production of colour. Depict each in depth.	**07**
	(b)	Explain the role of light source in colour perception with suitable example.	**07**
		OR	
Q.4	**(a)**	Depict detailed techno-physical aspects of Judd experiment associated with colout system.	**07**
	(b)	Show the production of Green colour by adsorption phenomenon of colour production.	**07**
Q.5	**(a)**	Elucidate various parts of a human eye with their working. (Clean sketch is required.)	**10**
	(b)	Enlist the characteristic features and symbolism of different chromatic colours. (Minimum four colours should be included.)	**04**
		OR	
Q.5	**(a)**	Write a broad note on colour constants.	**07**
	(b)	Explain in detail about Simple subtractive colour mixing to obtain a gamut of colours.	**07**

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