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SARDAR PATEL UNIVERSITY M.Sc. CHEMISTRY

 ${\bf Semester-III,\,External\,Examination}$

November 09, 2017 (Thursday)
Time: 2:00 pm - 05:00 pm
Synthetic Dyes and Pigments [PS03ECHE01]

N.B.	Figures to the right indicate full marks [Total Marks -	[Total Marks - 70]	
Q.1	Answer the following multiple choice questions.	[08]	
1	Dying of polyester is carried out by in most of the cases. (a) Disperse dyes (c) Biological dyes (b) Vat dyes (d) Ingrain dyes		
2	From the following is natural dye. (a) Turmaric (b) azo (c) Nitroso (d) Anthraquinone		
3	Nitrobenzene is (a) An Auxochrome (b) A Chromophore (c) A Chromogen (d) A dye		
4	is used as a food colour from the following. (a) Indigo (b) Saframine T (c) Amaranth (d) NIR		
5	DSC based on a is formed between a photo-sensitized anode and an electrolyte, a photo electrochemical system. (a) Semiconductor (b) Electrodes (c) Insulators (d) Current		
6	Security marks and features that are not visible under normal light are made with (a) Fluorescein (b) Luminescent pigments (c) Special dyes (d) All of above		
7	complimentary color of blue color is (a) Red (b) yellow (c) orange (d) gray		
8			
Q.2	Answer the following questions. (ANY SEVEN)	[14]	
1 2 3 4 5	Write a note on Auxochrome-Chromophore theory in brief. Describe food colors. Write a note on dye bleach process. Write synthesis of indigo dye. Write a note on Medicinal dyes.		
6 7	Write a note on reactive dyes. Explain Michler's hydrol is colorless but it's cation is blue.		
	(170)		