

V. P. & R. P. T. P. Science College
B.Sc. (Sixth Semester)
Monday 10th March, 2014
Subject code: US06CICV01 (DYES & INTERMEDIATE)
Industrial Chemistry (VOCATIONAL)

Time: 03:30 am to 05:00 pm

Total Marks: 30

Q-1 Answer any three of the following:

Marks-06

- i. Define the term: a) Auxochrome b) bathochromic Auxochrome c) Hypsochromic Auxochrome
- ii. Explain that Pure p-nitrophenol is colorless but yellowish in alkaline solution.
- iii. Indicate medium and position of coupling in R-acid, J-acid, H-acid and S-acid.
- iv. Give the name of mono azo, diazo & tri-azo dye with its structure.
- v. Discuss the limitations of reactive dyes.
- vi. Give the synthesis of disperse yellow-1.

Q-2 Write Witt's theory and explain how this theory relates colors and chemical constitution. Marks-08

OR

Q-2 Write note on types of forces involved during dyeing of fiber. Marks-08

Q-3 Discuss the various methods of diazotization in detail. Marks-08

OR

Q-3 Write a note on Lapworth's notation giving one example in each class. Marks-08

Q-4 What is the vat dye? Give an account of anthraquinone vat dye. Marks-08

OR

Q-4 Give the synthesis of disperse blue -1. Marks-08

