

# V.P. & R. P. T. P. SCIENCE COLLEGE

B. Sc. (Semester - VI) Examination  
INDUSTRIAL CHEMISTRY

12<sup>th</sup> March 2018, Monday

COURSE NO: US06CICH01 (SYNTHETIC DYES AND INTERMEDIATES)

TIME: 11:00 TO 12:30

TOTAL MARKS – 25



- Q.1 Answer the following MCQs... (03)
- Dyes classified according to their:
    - Chemical constitution.
    - Application to the fibre.
    - Types of fibre.
    - All of above.
  - Congo red dye is prepared by coupling tetrazotized benzidine with 2 molecules of:
    - Alph-Naphthyl amine-4-sulphonic acid.
    - Beta-Naphthyl amine-4-sulphonic acid.
    - Phenol-4-sulphonic acid.
    - None of them.
  - Estiamtion of beta-naphthol is performed in.....
    - Acidic pH
    - basic pH
    - Neutral pH
    - Any pH
- Q.2 Answer the following short questions (Any TWO) (04)
- Define term "Chromogen".
  - Enlist the various class of azo dyes on the basis of an applications.
  - Define term nitrite value.
- Q.3 Write a note on "Witt's Theory" for color chemistry. (06)
- OR
- Q.3 Give the classification of dyes according to their mode of application. (06)
- Q.4 Give detail methods of diazotization. (06)
- OR
- Q.4 Write note on Lapworth's notation for azo dyes. (06)
- OR
- Q.5 Write a note on estimation of H-acid. (06)
- OR
- Q.5 Write a note on purification and preparation of std. sulfanilic acid solution. (06)