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EC-502

(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 160504**

Roll No.

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**SEMESTER-V EXAMINATION-2015**  
**CHEMISTRY OF DYES & COLOUR**  
**CHEMISTRY**

*Time : 3 Hours**[Total Marks : 100***Note:** Attempt all questions. All questions carry equal marks.

1. Attempt any **two** question : (6x2=12)
  - (a) Discuss the preparation of sulphonic products. Describe the mechanism of sulphonation of aromatic compounds.
  - (b) Describe the vapour phase sulphonation and liquid phase sulphonation with examples.
  - (c) Give the preparation of Naphthionic acid.

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(1)

[Contd...]

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2. Attempt any two parts of the following: (6×2=12)

- (a) What are the various chemical groups responsible for color in dyestuffs? Give the general formula and typical dyestuff of each group.
- (b) What are chromophores, chromogens and auxochromes? Give examples.
- (c) How amino groups are introduced in the aromatic ring? Give details with examples.

3. Answer any two of the following: (6×2=12)

- (a) Classify dyes according to Chemical Constitution.
- (b) Discuss the importance of quantitative testing of dyes and its procedure.
- (c) Differentiate between Azoic dyes and Azo dyes. Discuss the stability and abnormalities in preparation of azo dyes.

4. Attempt any two of the following: (7×2=12)

- (a) Establish a relationship between colour and chemical constitution.
- (b) What are the various Chromophoric groups present in Vat dyes?
- (c) What are Anthraquinone dyes and how they are prepared?

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