



**AC-1567**  
**M. Sc. (Sem. IV) Examination**  
**April/May – 2015**  
**Organic Chemistry : Paper - IV**  
**(Dyes & Intermediates-II)**

Time : Hours]

[Total Marks : 70

**Instructions :**

(1)

<p>नीचे दृशावेक निशानीवाणी विगतो उत्तरवही पर अवश्य कपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : <b>M. SC. (SEM. 4)</b></p> <p>Name of the Subject : <b>ORGANIC CHEMISTRY : PAPER - IV</b></p> <p>Subject Code No. : <b>1 5 6 7</b> Section No. (1, 2,.....): <b>Nil</b></p>	<p>Seat No. : <input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></p> <div style="border: 1px solid black; border-radius: 15px; height: 60px; display: flex; align-items: center; justify-content: center; margin-top: 10px;">Student's Signature</div>
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(2) Figures to the right indicate full marks of the questions.

- 1 Answer any two of the following : 18
- (a) What are anthraquinone dyes ? Write note on anthraquinone acid dyes with examples.
  - (b) Describe anthraquinone solubilized vat dyes with examples.
  - (c) Give the synthesis of :
    - (i) Indanthrene Orange 7RK.
    - (ii) Indanthrene Yellow FFRK.
    - (iii) Indanthrene Scarlet B.
    - (iv) Caledon Jade Green XBN.
- 2 Answer any two of the following : 18
- (a) Give an account of reactive dyes.
  - (b) Describe sulphur dyes.
  - (c) Write the synthesis of :
    - (i) Acid Red 1.
    - (ii) Crystal Violet.
    - (iii) Procion Brilliant Blue MR.
    - (iv) Malachite Green.

- 3** Answer any two of the following : **18**
- (a) Give an account of cationic dyes.
  - (b) Describe disperse dyes.
  - (c) Write the synthesis of :
    - (i) Disperse Blue 14.
    - (ii) Crysodine Y.
    - (iii) Safranin T.
    - (iv) Sunset Yellow FCF.
- 4** Answer any two of the following : **16**
- (a) Give account of dyes for non-textile uses.
  - (b) Describe Acid dyes with examples.
  - (c) Write note on anthraquinone dyes for cellulose acetate with examples.
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