



RR-0865

Third Year B. Sc. (IC) Examination
March / April – 2010
Synthetic Dyes (CAN) (Vocational)

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशावलि निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="T. Y. B. Sc. (IC)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Synthetic Dyes (CAN) (Vocational)"/>	<input type="text"/>
Subject Code No. : <input type="text" value="0"/> <input type="text" value="8"/> <input type="text" value="6"/> <input type="text" value="5"/>	Section No. (1, 2,.....) : <input type="text" value="Nil"/>
Student's Signature	

(2) All sub questions of question No. 1 are **compulsory**.

(3) Figures to the right indicate full marks.

1 Answer the following questions in short :

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- (i) Give two examples of pigments.
- (ii) Give the structure and uses of p-cresidine.
- (iii) Give classification of intermediates and examples of each class.
- (iv) What is ingrain dyes?
- (v) Explain the term chromophore and auxochrome.
- (vi) What are azo dyes? Classify them in short.
- (vii) Give the structure and uses of Tinopal BV.
- (viii) Give the structure and name of dispersol blue B.
- (ix) Give the name of dyes used in medicine.
- (x) Define mordant dyes with two examples.
- (xi) Which dyes are used in photography?

- (xii) Give two examples of azoic coupling.
- (xiii) Explain food colours with examples.
- (xiv) What is meant by vat-dyes?
- (xv) Give the structure and use of Amarnath.
- 2** (a) Write the classification of pigments by giving examples. **4**
- OR**
- (a) Explain the difference between dyes and pigments.
- (b) Write the important dyes intermediates based on anthraquinone. **4**
- OR**
- (b) Classify dyes based on methods of application to fibres.
- (c) Give the synthesis of Benzene Orange. **3**
- 3** (a) Discuss the mechanism of diazotisation. **4**
- OR**
- (a) Explain the importance of pH in coupling of diazonium salts with phenolic and amino components.
- (b) Give the synthesis of Orange-IV. **4**
- OR**
- (b) Give the synthesis of Dispersol Blue.
- (c) Give the synthesis of EBT. **3**
- 4** (a) Discuss reactive dyes based on nucleophilic addition. **4**
- OR**
- (a) Give an account of anthraquinone vat dyes.
- (b) Give general account of reactive dyes based on vinyl sulphone system. **4**

OR

- (b) What are cold brand and hot brand reactive dyes?
Explain with examples.
- (c) Explain the Synthesis of Indigo. **3**
- 5** (a) Classify Fluorescent brightening agents based
on chemical constitution. **4**
- OR**
- (a) Write the synthesis of two important naphthols used
in azoic coupling.
- (b) Discuss the synthesis of Tinopol BV. **4**
- OR**
- (b) Outline the synthesis of Blankofor R.
- (c) Give an account of Rapidogens. **3**
- 6** (a) Write a note on Mordant dyes. **4**
- OR**
- (a) Write a note on cosmetic dyes and food colours.
- (b) Give the Synthesis of Erythrosin. **4**
- OR**
- (b) Give the synthesis of crystal violet.
- (c) Describe the synthesis of Hansa Yellow G. **3**
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