

- Q.24 Write structure of Nitro dyes, Nitroso dyes, Azo dyes, Indigo dyes, Anthraquinone dyes.
- Q.25 Give in brief history of natural dyes.
- Q.26 What is color? What is additive color mixing and subtractive color mixing?
- Q.27 Explain in brief the process of Sulphonation.
- Q.28 Write a short note on visible region of light.
- Q.29 Write short note on classification of chromophores.
- Q.30 What are effects of bonding on different dye with fiber?
- Q.31 Explain in brief Diazotisation and coupling.
- Q.32 What is H acid and J acid in details.
- Q.33 Write reaction of Gamma acid.
- Q.34 Write reaction of K acid.
- Q.35 What is coupling?

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain in details fractional distillation of coal tar.
- Q.37 Classify dye based upon chemical constitution and give structure of any 5.
- Q.38 Explain with example of dye Intermediates.

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**4th Sem / Text, Proc., Text. Chem
Subject:- Dyestuff Chemistry**

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Reactive dye makes covalent bond with cellulosic fibers in presence of
- a) Salt b) Acid
c) Alkali d) None of these
- Q.2 Disperse dye used for
- a) Polyester b) wool
c) cotton d) None of these
- Q.3 Which one is the example of chromophore in dyes?
- a) Hydro b) Bromo
c) Flouro d) Nitroso
- Q.4 Which is water soluble dyes?
- a) Reactive dyes b) Acid dyes
c) Direct dyes d) All of these

Q.5 Amination is introduction of _____ group.

- a) H₂O
- b) NO₂
- c) NH₂
- d) Cl

Q6 Sources of Coal Tar dyes

- a) Petroleum Product
- b) Vegetable
- c) Animal
- d) None of them

Q.7 Colour is described by

- a) Hue
- b) Brightness
- c) Strength
- d) All of these

Q8 O.N. Witts theory includes

- a) Dependent chromophores
- b) Independent chromophores
- c) Both A & B
- d) None of these

Q.9 Colour helping groups are

- a) Cromophores
- b) Auxochromes
- c) Both A & B
- d) None of these

Q.10 Visibility relates to

- a) Eyes
- b) Object
- c) Light
- d) All of these

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Give an example of any one dye having Azo Group.

Q.12 What is dye? Name the first synthetic dye.

Q.13 What is pigments?

Q.14 What is C.I. Constitution Number?

Q.15 Define chromophore.

Q.16 Does disperse dye have affinity for cotton fabric / fiber?

Q.17 Define vander wall forces.

Q.18 What is visible region of light?

Q.19 Give examples of indigo dyes.

Q.20 Define dye absorption.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 What are the characteristics of dye molecule for colouration of textile.

Q.22 Write a short note on hypochromic effect.

Q.23 Explain in modern theory of colour.