

20 SEP 2019

Seat No. \_\_\_\_\_

**Examination**

**B.Sc. Sem. – VI**

**Industrial Chemistry, Paper- ICHCC-604, Subject Code: 21871**

**Subject Title – Synthetic Dyes**

**Time: 2.30 Hours**

**Maximum Marks: 70**

- Que.1 (A) Discuss about aliphatic heterocyclic intermediate compound in detail. [10]  
(B) Give synthesis and application of G-acid. [04]  
OR
- Que.1 (A) Give synthesis of H-acid, R-acid and Bon-acid. [10]  
(B) Give synthesis and application of Gama-acid. [04]
- Que.2 (A) What is color? Give a relation between color and chemical constitution with example. [10]  
(B) What is auxochrome? Explain it. [04]  
OR
- Que.2 (A) Write a details account on Armstrong's theory. [10]  
(B) Give synthesis and application of sulphur blue-13. [04]
- Que.3 (A) Give synthesis of any three. [14]  
(1) Celliton violet R  
(2) Thioflavin T  
(3) Blankophor -R  
(4) Hansa yellow G  
(5) Eosin
- Que.4 Give synthesis of any three. [14]  
(1) Naphthol green  
(2) Acridine  
(3) Soframine T  
(4) Rosaniline  
(5) Acid violet R
- Que.5 Give synthesis of any three. [14]  
(1) Methyl violet  
(2) Auramine  
(3) EBT  
(4) Direct Black EW  
(5) Congo red