

TB165120F

Reg. No.:

Name :

B. Sc. DEGREE (C.B.C.S.S.) EXAMINATION, JANUARY 2019
(2016 Admission Supplementary)
SEMESTER V- CORE COURSE (CHEMISTRY)
CH5B06TB – ADVANCED ORGANIC CHEMISTRY

Time: Three Hours

Maximum Marks: 60

PART A

I. Answer all questions. Each question carries 1 mark.

1. What is meant by vat dye? Give one example.
2. What is Tollen's Reagent? Give its function?
3. Give the structure of Amphotericin?
4. Define Green Chemistry?
5. What are Pericyclic reactions?

(5 × 1 = 5)

PART B

II. Answer any five questions. Each question carries 2 marks.

6. Define optical isomerism?
7. Explain Wolf rearrangement?
8. What is meant by soap? Name the different types of soaps.
9. What is meant by addition polymer? Give one example.
10. What is DCC? Give its synthetic application?
11. Explain the structure and function of Borsche's reagent?
12. Discuss the structure of Chloramphenicol?
13. What are cycloaddition reactions?

(5 × 2 = 10)

PART C

III. Answer any five questions. Each question carries 5 marks.

14. Write a note on Asymmetric synthesis?
15. What is Arndt-Eistert synthesis?
16. Compare detergents and soaps. Explain the cleansing action of soaps.
17. Briefly explain the preparation and functions of Fehling solution, Schiff's reagent and Borsche's Reagent?
18. Discuss the preparation and mode of action of sulphanilamide?
19. Describe atom economy using suitable examples?
20. Explain green solvents with suitable examples?
21. What are Diels_Alder reactions?

(5 × 5 = 25)

PART D

IV. Answer any two questions. Each question carries 10 marks.

22. What is meant by Racemic mixture? What is resolution? Discuss different methods to resolve a racemic mixture
23. Discuss the preparation and synthetic applications of Acetoacetic ester?
24. (a) What are condensation polymers. Write a note on the preparation and uses of 2 condensation polymers.
(b) Discuss the structure and functions of (a) Lead tetra acetate (b) Periodic acid (c) Ziegler –Natta Catalyst (d) NBS
25. (a) Explain the principles of green organic synthesis using examples?
(b) Discuss Claisen rearrangement?

(2 × 10 = 20)