Q.P. Code 104008	Reg. No.:

First B. Pharm (Ayurveda) Degree Supplementary Examinations August 2023

Pharmaceutical Chemistry

Time: 3 hrs Max marks: 100

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers
 Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw Diagrams wherever necessary
 Write equations wherever necessary

Essays (2x10=20)

- 1. Explain acidity of phenol and effects of substituents on acidity of phenol.
- 2. Define free radicals. Explain free radical substitution reaction of methane.

Short notes (10x5=50)

- 3. Describe the mechanism of sulphonation and chlorination of benzene.
- 4. Note on general methods of preparation of cycloalkane.
- 5. Give assay of borax.
- 6. Give the principle and reaction behind the limit test of chlorides and iron.
- 7. Aldol condensation with mechanism.
- 8. Friedel craft's acylation with mechanism.
- 9. What is diazotization reaction.
- 10. How do you convert acetic acid into its acetic anhydride and acetyl chloride.
- 11. Give any two reactions of (a) Amines (b) Alcohols
- 12. Define (a) Carbonium ions (b) Inductive effect (c) Hyper conjugation

Answer briefly (10x3=30)

- 13. Applications of IR spectroscopy.
- 14. Define resonance. Give resonance structures of any one organic compound.
- 15. Write chemical reactions behind limit test of arsenic.
- 16. Preparation of ammonium chloride and its uses.
- 17. Give any two reactions of alkyl halides.
- 18. Define hydrogen bond. What are the types of hydrogen bonds.
- 19. Note on Ionic bond with example.
- 20. Note on Huckel's rule.
- 21. Write the structure of 2-methyl pentanoic acid, Chloroaceticacid.
- 22. Give any one test to identify aldehydes.
