Q.P. Code 104008	Reg. No.:

First B. Pharm (Ayurveda) Degree Regular/Supplementary Examinations March 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. Discuss general methods of preparation and reactions of ketones.
- 2. Discuss on methods of preparation and reactions of amines. Add a note on basicity of amines.

Short notes (10x5=50)

- 3. Activating and deactivating groups in electrophilic aromatic substitution.
- 4. Reactions of alkyl halides.
- 5. Kekule and Dewar structures of benzene.
- 6. Reactions of alkynes.
- 7. SP2 hybridisation.
- 8. Preparation and assay of ammonium chloride.
- 9. UV spectroscopy and its applications.
- 10. Nucleophilic addition reactions
- 11. Free radical substitution reaction of alkanes.
- 12. Methods of preparation and reactions of secondary alcohol.

Answer briefly (10x3=30)

- 13. Reactions of dicarboxylic acids.
- 14. Limit test for arsenic.
- 15. Write structures of 2,3-dimethyl-1-propanol and 1-Phenyl-2-propanone.
- 16. Friedel Craft alkylation.
- 17. Cannizaro reaction.
- 18. Synthesis of nitro compounds.
- 19. Preparation and uses of cyclopropane.
- 20. Reactions of acid chlorides.
- 21. Effect of substituents on acidity of carboxylic acids.
- 22. Inductive effect.
