Q.P. Code 104008 Reg. No.:.....

First B. Pharm (Ayurveda) Degree Regular Examinations November 2024 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 Friedel-Craft alkylation and acylation with the mechanism.
- 2. Define alkanes. Give general methods of preparation and properties of Alkanes.

Short notes (10x5=50)

- 3. Aldol condensation.
- 4. Explain the preparation and assay of NH4Cl
- 5. Give general reactions of nitro compound.
- 6. Different tests to distinguish between aldehyde and ketone.
- 7. What is Kharash/peroxide effect.
- 8. Explain the decarboxylation reaction of carboxylic acid.
- 9. Discuss the stability of cyclic compounds.
- 10. General mechanism of nucleophilic addition reaction of carbonyl compound.
- 11. Explain the assay of borax.
- 12. Explain the halogenation of alkanes.

Answer briefly (10x3=30)

- 13. Difference between sigma (σ) and pi (π) bond.
- 14. Explain the diazotization reaction.
- 15. Explain chair and boat conformation of cyclohexane.
- 16. Give conversion from acid to ester.
- 17. Structural formula for 2,3-dimethylbutane.
- 18. Explain the effect of substituent on the acidity of Phenol.
- 19. Note on positive and negative inductive effects.
- 20. Williamson's synthesis.
- 21. Define limit test and its application.
- 22. Why phenol is more acidic than ethanol.
