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

First B.Pharm (Ayurveda) Degree Supplementary Examinations, April 2017

PHARMACEUTICAL CHEMISTRY

Time: 3 hrs Max marks: 100

- Answer all questions
- Write equations wherever necessary
- Draw diagrams wherever necessary

Essays (2x10=20)

- 1. What are alkyl halides and explain with mechanism of nucleophilic substitution reaction of alkyl halides
- 2. Describe electrophilic addition reaction in detail and add a note on Anti-Markonikov's rule

Short notes (10x5=50)

- 3. Activating and deactivating groups in electrophilic aromatic substitution
- 4. Method of preparation of aryl halides
- 5. Basicity of amines
- 6. UV and IR spectroscopy with application
- 7. Explain Cannizzaro reaction with mechanism
- 8. Preparation and assay of borax
- 9. Explain the reaction to convert alkene to alkyl halides
- 10. Ring stability of cycloalkanes
- 11. Aromaticity of benzene
- 12. IUPAC nomenclature of alkanes

Answer briefly (10x3=30)

- 13. Stability of carbocation
- 14. Chemistry of primary and secondary amines
- 15. Hyper conjugation
- 16. Difference between electrophile and nucleophile
- 17. Mention the structural formula for the following
 - 2-chloroaniline
- m-chlorophenol
- 3, 4-dibromohexane
- 18. Test for Purity of Arsenic Compound.
- 19. Explain the reactivity of metals
- 20. Hydrogen bonding
- 21. SP hybridization with example
- 22. Preparation of diazonium salt
