

Code: 9R01103

R09

B.Pharm I Year (R09) Supplementary Examinations June 2017

PHARMACEUTICAL ORGANIC CHEMISTRY - I

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 Explain bond length, bond angle and bond dissociation energy with suitable examples.
- 2 (a) Explain the mechanism of free radical substitution reaction.
(b) Explain the stability of conjugated dienes.
- 3 With suitable example, explain the orientation in mono-substituted benzenes for electrophilic substitution reactions.
- 4 (a) Give the general methods for the preparation of alkyl halides.
(b) Write short notes on Walden inversion.
- 5 Give the general methods of preparation for 1°, 2° and 3° alcohols with suitable examples and add a note on their reactivity.
- 6 Give the mechanisms for Aldol condensation and Perkin's reaction.
- 7 (a) Explain the acidity of carboxylic acids.
(b) Give the conversion of carboxylic acids into anhydride and esters.
- 8 (a) Explain the acidity of nitro compounds.
(b) Explain diazotization reaction with mechanism.
