

Code: 9R01103

R09

B.Pharm I Year (R09) Supplementary Examinations December 2016

PHARMACEUTICAL ORGANIC CHEMISTRY - I

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Write about inductive and mesomeric effect.
(b) List the various types of organic reagents.
- 2 (a) Explain free radical substitution of alkanes.
(b) Explain Bayer strain theory.
- 3 (a) Explain about electrophilic substitution, oxidation, reduction involved in phenanthrene.
(b) Write any two preparative methods of naphthacene.
- 4 (a) Write any two methods of preparation of alkyl halides and note on stereochemistry involved in SN^2 mechanism.
(b) Explain nucleophilic substitution reactions involved in aryl halides.
- 5 (a) Write Reimer-Tiemann reaction with mechanism.
(b) Explain elimination reactions of alcohols with at least two examples.
(c) Explain the order of reactivity of alcohols.
- 6 (a) Explain nucleophilic addition reactions.
(b) Explain Oppenauer oxidation.
(c) Write any two preparative methods of aldehydes.
- 7 (a) Explain malonic ester synthesis and its applications.
(b) Discuss acidity of carboxylic acids.
(c) Write reduction reactions of esters and amides.
- 8 (a) Write two methods of synthesis, reactivity and reactions of nitriles.
(b) Explain the basicity of amines.
