

Code: 9R01704

B.Pharm IV Year I Semester (R09) Supplementary Examinations November 2017

MEDICINAL CHEMISTRY – II

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Give the classification of Penicillins with examples. Also write any one acid hydrolysis reaction for Penicillin.
(b) Write the SAR of semi-synthetic Penicillins.
- 2 (a) Compare and contrast 6-APA and 7-ACA derivatives.
(b) Draw structure of a cephalosporin and cephameycin. Write the advantages of cephalosporins over penicillins.
- 3 (a) Write the SAR of tetracycline.
(b) Discuss the amphoteric nature, epimerization and metal-chelation of tetracycline.
- 4 (a) Discuss the structural features of streptomycin.
(b) Discuss the mechanism of action, therapeutic uses and toxicity of amino-glycoside antibiotics.
- 5 (a) Discuss the deficiency diseases of various vitamins. Also explain the structure of isotretinoin.
(b) Write the structure of vitamin-A. Also write its physiological role and uses.
- 6 (a) Draw the structure of vitamin-D and write its medicinal uses.
(b) Write preparation of ergocalciferol.
- 7 For vitamin-K class, discuss their structures, uses and physiological role.
- 8 (a) Draw the structures of vitamin-B2 and vitamin-C. Also write their physiological role and uses.
(b) Discuss the oxidation reactions of thiamine and nicotine.
