

Code: 9R01704

B.Pharm IV Year I Semester (R09) Supplementary Examinations November 2016

MEDICINAL CHEMISTRY - II

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Define antibiotic. Classify penicillins based on spectrum of activity and write a note on SAR of penicillins.
(b) Explain briefly about β - lactamase inhibitors.
- 2 (a) Explain SAR of cephalosporins and write a note on cephalosporin c acid hydrolysis.
(b) Differentiate 6-APA (6-amino penicillanic acid) and 7-ACA (7-aminocephalosporinic acid).
- 3 (a) Write biological source, mechanism of action, SAR and structures of few tetracyclines.
(b) Write a note on acidity constants of tetracyclines.
- 4 (a) Write a brief note on streptomycin.
(b) Explain polypeptide antibiotics.
- 5 Write the structures, physiological role and uses of vitamin-A and explain briefly about retinoic acid.
- 6 (a) Explain in detail the structures, uses of vitamin-D and its derivatives.
(b) Explain irradiation of ergosterol.
- 7 Write the structures, physiological role and uses of various tocopherols.
- 8 Write a note on the following:
(a) Reduction of folic acid in biological system.
(b) Oxidation of nicotine.
(c) Structure, physiological role and uses of riboflavin and ascorbic acid.
