

Subject Code: B4103/R10**IV B.Pharmacy I Semester Supplementary Examinations Nov. - 2016****MEDICINAL CHEMISTRY-II****Time: 3 hours****Max. Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks

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1. (a) Write the classification of antibiotics with examples.
(b) Describe chemistry, SAR and uses of cephalosporins. [6+9]
2. (a) Write any four structures of penicillins and write a note on β -lactamase inhibitors.
(b) Explain numbering and naming of penam according to CA and USP system. [10+5]
3. Write a note on
(a) Spectrum of activity and mechanism of action of tetracyclins.
(b) Explain the biological sources, three acidity constants and structures of important tetracyclins. [6+9]
4. (a) What are amino glycoside antibiotics? Write structure, therapeutic activity and toxicity of streptomycin.
(b) Write a brief account on chloramphenicol. [9+6]
5. (a) Write the structure, physiological role and uses of vitamin A.
(b) Write the preparation of cholecalciferol from 7-dehydrocholesterol. [10+5]
6. (a) Write the classification of Antidiabetic agents with examples.
(b) Write about metabolic functions of Insulin.
(c) Write a note on α – Glucosidase inhibitors. [5+5+5]
7. (a) Write the structure, physiological role and uses of vitamin E .
(b) Explain in detail structures and physiological role of vitamin K₁ and vitamin K₂. [7+8]
8. (a) Write the structure and oxidation reactions of thiamine , nicotine and nicotinic acid.
(b) Explain the degradation of riboflavin. [9+6]
