

Code No: B4103

**R10****SET - 1****IV B. Pharmacy I Semester Advanced Supplementary Examinations, February - 2020****MEDICINAL CHEMISTRY-II**

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions  
All Questions carry **Equal** Marks  
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1. a) Classify penicillins with examples. Discuss the SAR of Penicillins. (10M)  
b) Write structure, nomenclature and synthesis of Amoxicillin. (5M)
2. a) With a neat scheme explain the hydrolytic reactions of Cephalosporins. (8M)  
b) Write short notes on penams. (7M)
3. a) Discuss the amphoteric and chelation properties of Tetracycline. (8M)  
b) Explain the SAR and toxicity of Tetracycline. (7M)
4. Discuss the following. (15M)  
(a) Dihydrostreptomycin (b) Rifampicin
5. Write in detail on source, chemistry and physiological role of Vitamin D. (15M)
6. a) Compare the structure and functions of Vitamin Ks. (6M)  
b) Write in detail on chemistry and biological roles of vitamin E. (9M)
7. Discuss the chemistry and biological roles of (15M)  
(a) Folic acid (b) Ascorbic acid
8. a) Write in detail brief on  $\alpha$ -glucosidase inhibitors. (7M)  
b) Write short notes on antithyroid drugs. (8M)