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School of Medical and Allied Sciences

Bachelor of Pharmacy

Semester End Examination - Jun 2024

Duration : 180 Minutes

Max Marks : 75

Sem VI - BPHT6001 - Medicinal Chemistry IIIGeneral Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Explain homology modeling and explain its significance in protein structure prediction. K2 (2)
 - 2) Explain the MOA of clindamycin. K2 (2)
 - 3) What is the general structure of sulphonamide antibiotics. K1 (2)
 - 4) Explain the MOA of Isoniazid. K2 (2)
 - 5) What is the structure of Amphotericin-B. K1 (2)
 - 6) Classify macrolide antibiotics. K2 (2)
 - 7) What are the general mechanism of anti-fungal agent. K1 (2)
 - 8) Explain the nomenclature of macrolide antibiotics. K2 (2)
 - 9) What are the uses of penicillin? K1 (2)
 - 10) What are the uses of tetracycline? K1 (2)

 - 11) Organise a note on Trimethoprim. K3 (5)
- OR**
- Organise a note on Dapsone. K3 (5)

 - 12) Organise the SAR of cephalosporin. K3 (5)
 - 13) Analyze the concept and applications of combinatorial chemistry K4 (5)
 - 14) Organise the SAR of Tetracycline. K3 (5)
 - 15) Analyze a brief note on Ethionamide. K4 (5)

 - 16) Simplify the SAR of Ethambutol. K4 (5)

OR

Simplify a note on prodrug. K4 (5)

17) Analyze the methods used for predicting receptor/enzyme cavity sizes in de novo drug design. K4 (5)

18) Discuss the classification of Antimalarial drugs. K6 (10)

19) Determine the method of preparation, uses and adverse effect of ciprofloxacin K5 (10)

OR

Determine the various approaches in drug design K5 (10)