

**Third Year Pharm D Degree Examinations June 2019****Pharmacology II****Time: 3 Hours****Total Marks: 70**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essays****(3x10=30)**

1. Classify diuretics according to their sites of action. Explain the mechanism of action, pharmacological effects, therapeutic uses and adverse effects of loop diuretics.
2. Explain gene transcription and various factors that regulate transcription.
3. Discuss the life cycle of malarial parasite. Classify anti-malarial drugs and explain mechanism of action, adverse effects and therapeutic uses of chloroquine.

**Short notes****(8x5=40)**

4. Receptors and therapeutic uses of vasopressin.
5. Nucleoside and nucleotide reverse transcriptase inhibitors.
6. Histone deacetylases.
7. What is chronic toxicity study and explain its importance in preclinical studies.
8. Immunosuppressive corticosteroids.
9. Explain the mechanism of development of bacterial resistance to antibiotics.
10. Briefly explain translocation and tumor suppressor gene.
11. MAP kinase pathway.

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