

Ex/ BP501T/2023(S)

B. Pharm 3rd Year First Semester Supplementary Examination-2023

Medicinal Chemistry-II

FM-75

Time-3hrs

Answer any five questions taking atleast one from each group

Group-A

- 1) a. Define and classify classic anti histamines with examples.
- b. Outline the mode of action and SAR of Histamine H1 receptor antagonist.
- c. What are the pathophysiological roles of histamine?
- d. How is histamine biosynthesized? (3+7+2+3=15)
- 2) Outline the synthesis and chemical names of the following:
- a. Diphenhydramine HCl
- b. Tripellamine HCl
- c. Pheniramine Maleate
- d. Cyclizine HCl
- e. Promethazine HCl (3+3+3+3+3=15)
- 3) a. What are the therapeutic applications of Histamine H2 receptor antagonist?
- b. Draw the structure and uses of Ranitidine and Famotidine.
- c. Discuss the SAR of proton pump inhibitors. (3+6+6=15)

Group – B

4. Discuss the nomenclature of steroids. What are the different Phase 1 and Phase 2 metabolism procedures of steroids? [5+10]
5. Describe the structure, mechanism of action, structure activity relationships, metabolism, uses and side effects in case of testosterone. [1+2+6+2+2+2]
6. Write the structure, mechanism, and therapeutic uses of the following drugs (a) Nandrolone (b) Estradiol (c) Tadalafil (d) Prednisolone (e) Progesterone [5x3]

Group – C

Answer at least one question

7. Write a short note on osmotic diuretics. 15
8. a) Classify renal tubular transport inhibitors.
b) How do you prepare:
 - i) Dichlorophenamide
 - ii) Disulphamide

Discuss the synthesis with chemical equations. $5 + 2 \times 5 = 15$