B.Pharm 3rd Year 1st Semester Examination- 2019

Medicinal Chemistry-I(Old)

Time : Three hours Ex/Pharm/T/313/2019

Answer any five taking at least two from each group Full Marks : 100

Group- A

1. a) What are the cardinal symptoms of inflammation?

   b) Define and classify NSAIDS with examples.

   c) Outline the synthesis, mode of action and SAR of Salicylic acid derivatives and Indole acetic acid derivative.

   2+4+14=20

2. a) Define histamine and its biosynthetic pathway.

   b) What is the pathophysiology of histamine?

   c) Classify antihistamines with examples.

   d) Outline the synthesis and chemical names of the followings: Diphenhydramine, Triprolidine HCl, Diclofenac sodium, Ibuprofen.

   2+4+4+10=20

3. a) What are nonsedative antihistamines? Give some examples.

   b) Outline the synthesis and chemical names of Methapyrilene HCl, Tripelennamine, Antipyrine and Naproxen.

   c) What are the inhibitors of Histamine release? Give one structure. Write the structure of Ranitidine, Cimetidine and Famotidine. Mention their uses. 2+10+8=20

4. a) How can you evaluate an anti-inflammatory drug?

   b) Write a note on Phenothiazines. 10+10=20

B. Pharm. 3rd Year 1st Semester (Old) Examination 2019

Medicinal Chemistry I **Time: 3 Hr** **Full Marks: 100**

Group 'B'

Answer at least two questions

5. a) Write a note on belladonna.

b) How do you prepare atropine sulphate from atropine. Discuss with chemical equations.

c) What are natural sources of atropine?

10 + 4 + 6 = 20

6. How do you prepare hyocyamine from natural sources? Discuss the chemistry involved mentioning the extraction procedure. 10 + 10 = 20

7. How do you prepare hyoscine hydrobromide from methylamine and acetophenone? Discuss synthetic steps with chemical equations. 9 + 7 + 4 = 20