

B.Pharm 3<sup>rd</sup> Year 1<sup>st</sup> Semester Examination- 2019

Medicinal Chemistry-I

Full Marks : 100

Time : Three hours

Answer any *five* questions.

Atleast ~~2~~ from each group.

Ex/PHARM/T/313/2019

Group- A

1. a) What are the cardinal symptoms of inflammation?  
b) What do you mean by 'autacoids'? Give some examples.  
c) Define and classify NSAIDS with examples.  
d) Outline the synthesis, mode of action and SAR of  
Pyrazolidine diones and Heteroarylacetic acid derivative.

1+1+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:

Dimenhydrinate, Triprolidine HCl, Chlorpheniramine maleate,

Buclizine

2+4+4+10=20

3. a) What are nonsedative antihistamines? Give some examples.  
b) Outline the synthesis and chemical names of Methapyrilene HCl,  
Tripeleennamine, Mepyramine, Pheniramine maleate and Cetrizine HCl.  
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

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Group 'B'

Answer at least two questions

5. Discuss the chemistry involved in isolation of atropine mentioning the procedure of extraction. 10 + 10 = 20

6. How do you prepare scopolamine from methyl amine and acetophenone. Discuss the chemistry involved in the synthetic procedure with chemical equations. 12 + 8 = 20

7. How do you prepare the following drugs: 7 + 7 + 6 = 20

a) Propanthelium

b) Oxyphenonium and

c) Oxyphencyclimine