

**FINAL YEAR (NEW) PHARMACY
PHARMACEUTICAL CHEMISTRY - II
(202)**

Time : Three Hours

Maximum Marks : 80

Note : All questions are compulsory.

1. Attempt any four of the following questions: 20

a) Define the following terms.

i) Sedatives

ii) Antitussive

iii) Antifistaminics

iv) Antiparkinsonism

b) Write the structure of following group:

i) Acetyl

ii) Butyl

iii) Guanidino

iv) Glycyl

c) Write the chemical name of the following group:

i) $\text{CH}_3\text{COS} -$

ii) $(\text{CH}_3\text{CH}_2)_2\text{N} -$

iii) $\text{C}_6\text{H}_5\text{CONH} -$

iv) $\text{H}_2\text{NCO} -$

d) Write the name and structure of the drug containing following structure:

- i) Imidazoline
- ii) 3-Pyrozoline
- iii) Isoxazolidine
- iv) Tetrazole ✓

e) Write the structure and method of numbering:

- i) Pyrrole
- ii) Indole
- iii) Morpholine
- iv) Pyrimidine

2. Attempt any three of the following questions. 12

a) Write uses of vitamin D, vitamin B2, Nicotinic Acid and Ascorbic acid.

b) Write short note on sex hormones or glucocorticoids. <http://www.rgpvonline.com>

c) What are local anaesthetics? Classify with examples.

d) Write structure chemical name properties and uses of Ibuprofen or Indomethacin.

3. Attempt any three of the following: 12

a) Define and classify antihistamines with examples.

- b) Write structure, properties and uses of Diphenhydramine.
- c) Define and classify anticancer drugs with suitable examples.
- d) Write a note on Antithyroid drugs.

4. Attempt any three of the following: 12

- a) What are oral hypoglycemic Agents. Write structure, properties and uses of Tolbutamide.
- b) Write the structure, chemical name and uses of procainamide or clonidine.
- c) Describe the chemistry of Antimalarial drugs.
- d) Write the structure, chemical name of the following drugs:
 - i) Chloroquine ii) Proguanil
 - iii) Pyrimethamine iv) Primaquine

5. Attempt any three of the following: 12

- a) Define adrenergic drugs. Classify with suitable examples.
- b) Write structure, chemical name and uses of Atropine or Propantheline.
- c) Write the structure and uses of Imipramine and Nikethamide.
- d) Write in brief on general Anaesthetics.

6. Attempt any three of the following:

12

- a) Define sulphonamides. Give their classification with examples.
- b) Write a short note on Anthelmintic.
- c) Discuss β -Lactam antibiotics in detail.
- d) Write a short note on Anideptics.

