

M.Sc. (Part - II) (Chemistry) Fourth Semester old
MSC2434-5-Elective Paper-XVI : Medicinal Chemistry

P. Pages : 2

Time : Three Hours



GUG/W/18/2450

Max. Marks : 80

1. a) Write in brief Indian and International framework for patent protection. 8
- b) Discuss the principles of various types of detectors used in Gas chromatography. 8

OR

- c) Write a short note on drugs acts and drugs rules. 4
- d) What are the important features and advantages of Thin layer chromatography? 4
- e) Discuss how to protect patents, copyrights and trademarks. 4
- f) Write a note on Radiopharmaceuticals. 4
2. a) Discuss the F- Test with formula, calculation and common examples. 8
- b) Give the synthesis and uses of following: 8
- i) Proguanil ii) Amantadine

OR

- c) Discuss the malarial parasite's life cycle. 4
- d) Write a note on chemotherapy for HIV. 4
- e) Describe the steps involved in a sampling of solids and liquids. 4
- f) Give short account on investigational drugs. 4
3. a) What is meant by histamine antagonist? Give the clinical effects of antihistamine and discuss inhibition and release of histamine. 8
- b) Write note on chloramphenicol and explain the chemical degradation of Penicillin. 8

OR

- c) What are β -Lactam antibiotics? Enlist narrow spectrum and broad spectrum antibiotics with example. 4
- d) Give the synthesis of phenothiazines and mention its uses. 4
- e) Give the Synthesis and medicinal importance of methalyeline. 4
- f) Write the note on Pipergine derivatives. 4

4. a) i) Give the origin of antiamoebic drugs. 8
ii) Explain drugs used in cestode infection and trematode infection.
b) i) Discuss the etiology of inflammatory diseases. 8
ii) Describe inflammatory response of anti-inflammatory drugs.

OR

- c) Write the synthesis and side effects of clioquinol. 4
d) Give the synthesis and mode of action of Phenylbutazone. 4
e) Explain drugs used in nematode infection. 4
f) Write a short note Pyrazolone derivatives. 4
5. a) Differentiate partition and adsorption TLC techniques. 2
b) Elaborate HPLC and LCMS meaning. 2
c) Draw the structure and uses of Proguanil. 2
d) How HIV causes infection of AIDS in humans? 2
e) Give classification of cephalosporins. 2
f) Define the term Antihistamine agent. 2
g) Draw the structure of Haloquinol and indoleacetic acid. 2
h) What are the species involved in trematode infection? 2
