

M.Sc.(Chemistry) (CBCS Pattern) Semester - IV
PSCHT16.5 - Paper-XVI - Elective : Medicinal Chemistry

P. Pages : 2

Time : Three Hours



GUG/S/23/11464

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 rules and drug acts. **4**
d) What are the important features and advantages of thin layer Chromatography? **4**
e) Discuss how to protect patents, copyrights and trade marks. **4**
f) Write a note on Radio- pharmaceuticals. **4**
2. a) Discuss the F-text with formula, calculation and common examples. **8**
b) Give the synthesis and uses of **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 referees 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 mention its uses. **4**
e) Give synthesis and medicinal importance of methacycline. **4**
f) Write note on miscellaneous antibiotics. **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 synthesis of indole acetic acid derivative. 4
f) Write a short note on iodoquinol. 4
5. a) Write the use of radioisotopes for radiology and CT. 2
b) Distinguish between thin layer and paper chromatography. 2
c) Give short account on viral diseases. 2
d) Write SAR of tetracycline. 2
e) Give classification of cephalosporines. 2
f) Write the structure of chloroquine. 2
g) Write a short note on Helminthiasis. 2
h) Explain synthesis of Niclosamide. 2
