

PY - 703
B.Pharmacy VII Semester
Examination, December 2014
Pharmaceutical Chemistry-VIII
(Medicinal Chemistry - III)

Time : Three Hours

Maximum Marks : 70

Note: 1. Attempt any Five questions.

2. All questions carry equal marks.

1. a) What are antiarrhythmic drugs? Classify them giving structures? Give the synthesis of any two antiarrhythmic drugs.
b) What are antihypertensive agents? Classify them giving examples. Discuss the SAR of 1, 4-dihydropyridines as antihypertensive agents.
2. a) Classify the diuretics giving suitable examples. Discuss the mechanism of action of loop diuretics.
b) What are potassium sparing diuretics? Discuss the SAR of thiazide diuretics.
3. a) What are the antimetabolites? Give the rationale for the combination of sulfamethoxazole and trimethoprim. b) Discuss the chemistry and mode of action of penicillin.
4. a) Give the mechanism of action and synthesis of Chloramphenicol.
b) What are macrolides? Discuss the SAR of Tetracyclines.
5. a) Classify antineoplastic agents. Discuss the mode of action and synthesis of any two alkylating agents.
b) Discuss the structures and mode of action of agents interfering with viral nucleic acid replication and translation of ribosomes.
6. a) Discuss the mode of action and SAR of 4-aminoquinolines.
b) What are protozoan diseases? Classify antiamoebic drugs giving suitable examples.
7. Write the synthesis, mode of action and uses of any three of the following:
 - a) Acetazolamide
 - b) Sulfamethoxazole
 - c) Metronidazole
 - d) Primaquine
 - e) Isoniazid
8. Write a short note on any three of the following:
 - a) Cardiac glycosides
 - b) Role of immunosuppressant in organ **transplantation**.
 - c) Oxytocin
 - d) Antianginal drugs,