

**PY - 703**

**B.Pharmacy VII Semester**

Examination, December 2013

**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) Discuss pharmacokinetics of cardiac glycosides giving their structures.  
b) Explain how anti arrhythmic drugs act. Write structures of calcium channel blockers.
2. a) Discuss mechanism of action and site of actions of carbonic anhydrase inhibitors.  
b) Explain the role of anti metabolites in cancer therapy giving their structure. Write synthesis of one inhibitor of DNA polymerase used as antiviral agent.
3. a) Explain how hyperlipidemia is produced. Write structures of HMG coenzyme A reductase inhibitors.  
b) Discuss how hypertension is produced. Write structures of some renin-angiotensin system inhibitors.

4. a) Classify antitubercular agents. Name some synthetic and plant products used there in.  
b) Discuss site of action of anti material drugs in human. Give SAR of quinsline derivatives.
5. a) Write name and structures of drugs indicated for different types of protozoan diseases. Also give synthesis of any one drug.  
b) Classify antitubercular drugs giving structures. Write synthesis of pyrazinamide.
6. a) Write a short note on anthelmintics.  
b) Discuss nomenclature of cephalosporins. Name some currently used semi synthetic derivatives of cephalosporins.
7. a) Discuss SAR of Amino glycosides.  
b) Write a short note on drugs affecting uterine motility.
8. a) Discuss chemistry and mechanism of action of macrolides.  
b) Write a self explanatory note on Immunosuppressive agents.

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