

**FACULTY OF PHARMACY**  
**Pharm. D (6 YDC) III - Year (Instant) Examination, March 2018**

**Subject: Medicinal Chemistry**

**Time: 3 Hrs****Max. Marks: 70**

**Note: Answer all questions from Part - A and answer any five questions from Part-B.**

**PART – A (10 x 2 = 20 Marks)**

- 1 Give two structural examples of Macrolide antibiotics.
- 2 Explain the mechanism of action of organic nitrates as antianginal agents with examples.
- 3 Give two examples and therapeutic uses of Disinfectant.
- 4 Mention the applications of ASAR.
- 5 Write two examples of anti-inflammatory glucocorticoids.
- 6 Write the name and structure of drug used as anticonvulsant and antiarrhythmic agent.
- 7 Write the structure and uses of chloramphenicol.
- 8 Mention the classification of prodrugs.
- 9 Explain the mechanism of action and uses of ACE inhibitors.
- 10 Give the applications of Diagnostic agents.

**PART – B (5 x 10 = 50 Marks)**

- 11 (a) Give the classification of antihypertensive agents giving two examples for each class.  
(b) Explain SAR and mode of action of thiazide diuretics.
- 12 Write the synthesis and uses of  
(a) Clonidine  
(b) Tinidazole
- 13 (a) Write the classification of antitubercular drugs giving one structural example for each class  
(b) Discuss about plant products used as antineoplastic agents.
- 14 Write the synthesis, mode of action and uses of  
(a) Diltiazem  
(b) Chloroquine Phosphate
- 15 (a) Explain SAR and mechanism of action of penicillins.  
(b) Write a note on anti AIDS agents.
- 16 (a) Write the classification of antifungal agents giving two examples for each class  
(b) Write a note on Androgens.
- 17 Write the synthesis mode of action and therapeutic uses of  
(a) Clofibrate  
(b) Furosemide  
(c) Sulfamethoxazole
- 18 Give a brief note on  
(a) Combinational chemistry  
(b) Loop Diuretics.

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