

**QP CODE: 305326**

**Reg. No: .....**

**Third Year Pharm D Degree Examinations July 2018  
Medicinal Chemistry**

**Time: 3 Hours**

**Total Marks: 70**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essays**

**(3x10=30)**

1. Explain QSAR with special reference to lipophilic parameters.
2. What are anti malarials. Classify them with suitable structures. Discuss the synthesis of chloroquine phosphate and mepacrine hydrochloride.
3. Discuss the anti-viral drugs. Describe the synthesis of acyclovir and zidovudine.

**Short notes**

**(8x5=40)**

4.  $\beta$  lactam antibiotics
5. Explain the chemistry of estrogens.
6. The SAR of angiotensin – II antagonist
7. Combinatorial chemistry
8. Calcium channel blockers.
9. The pro drug concept and its applications
10. Discuss on oral hypoglycemic agents.
11. Antisense molecules.

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