

Roll No .....

**PY-603 (GS)****B.Pharmacy VI Semester**

Examination, May 2018

**Grading System (GS)****Pharmaceutical Chemistry - VII  
(Medicinal Chemistry - II)***Time : Three Hours**Maximum Marks : 70*

- Note:* i) Attempt any five questions.  
ii) All questions carry equal marks.

1. Elaborate the rational approach to drug design with regard to quantum mechanics, molecular orbital theory, molecular connectivity and linear free energy concept. 14
2. What are sedatives and hypnotics? Discuss the SAR, mode of action and uses of barbiturates. 14
3. a) What are thyroid hormones? Discuss the biosynthesis and chemistry of thyroid hormones. 8  
b) Write a note on antithyroid drugs. 6
4. What are narcotic analgesics? Classify them giving examples. Describe the chemistry of various morphine derivatives. 14

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5. Give a comprehensive account of antipsychotics. Support your answer with most potent drugs by providing structures, chemical names and uses. 14
6. a) Discuss the recent advances in the development of adrenocorticoid drugs. 7  
b) Write a note on female sex hormones. 7
7. Write short notes on (any two): 14  
a) Vitamins  
b) Laxatives and antidiarrheal  
c) Oral hypoglycemic agents
8. What are general anesthetics? Classify them and describe them briefly. Enumerate various characteristic features of ideal general anesthetic? 14

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