

PY-603
B Pharmacy VI Semester
Examination. December 2014
Pharmaceutical Chemistry -VII
(Medicinal Chemistry –II)
Time : Three Hours
Maximum Marks : 70

Note: Attempt any five questions. All questions carry equal marks.

1. a) What are General anesthetics? Discuss the SAR of Barbiturates.
b) Define Parkinson disease. Classify antiparkinsonian agents giving examples and give the rationale of carbidopa with levodopa in combination.
2. a) Define the antiseizure agents? Classify them giving examples. Discuss mode of action of benzodiazepines.
b) What are tranquillizers? Discuss the structure activity relationship of Phenothiazine.
3. a) Write an exhaustive short note on computer aided drug design.
b) Discuss the SAR of tricyclic antidepressant agents.
4. a) Classify oral hypoglycemic agents giving examples. Write synthesis and mode of action of any two compounds.
b) What are water soluble vitamins? Discuss the role of vitamin B complex in detail.
5. a) Discuss the chemistry and physiological role of insulin.
b) Classify antithyroid drugs giving their structures. Write the synthesis and mode of action of one clinically used drug.
6. a) What are the sex hormones? Discuss the mode of action and SAR of androgens.
b) Define oestrogen. Write the structures of steroidal and non steroidal oestrogens, Give the synthesis of oestradiol.
7. Write the synthesis, mode of action and uses of the following (any THREE)
a) Thiopentone b) Chlordiazepoxide c) Phenytoin d) Chlorpromazine e) Levodopa
8. Write a short note on any three of the following:
a) Endogenous opioid peptides
b) Antiulcer drugs
c) Adrenocorticoid drugs
d) Hansch's analysis
e) Testing of new hypnotics