

Master of Pharmacy 2nd Sem Exam 2019

Pharmaceutical Chemistry III

Time 3 hours

Full marks 100

Answer any five question taking atleast Two from each group

Group A

Answers to all parts of a question should be written together and in the same order as they appear in the question paper.

1. How can you develop an MLR equation? Discuss different metrics to evaluate statistical quality and predictive power of a regression based QSAR model. 12+8
2. Discuss different forces involved in drug receptor interactions 20
3. Give an account of different electronic substituent constants. 20
4. Write notes on:
(a) Free Wilson Model, (b) Partition coefficient in drug design 10+10

M. PHARM. FIRST YEAR SECOND SEMMESTER EXAMINATION - 2019

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Answer at least two questions

Group 'B'

4. Write short note on:

- a) Activation of proto-oncogenes
- b) Inactivation of tumor-suppressor genes
- c) Abnormalities in cell cycle regulation
- d) Apoptosis and p-53 protein

4 X 5 = 20

5. Discuss:

- a) Development of tipifarnib
- b) Synthesis of gefitinib
- c) Development of imatinib
- d) General synthesis of imatinib and analogs

4 X 5 = 20

6. Write short note on:

- a) Telomers
- b) Angiogenesis
- c) Tissue invasion and metastatis
- d) Histone deacetylase

4 X 5 = 20