

**Rajiv Gandhi University of Health Sciences**  
**Ph.D Entrance Examination – MARCH-2019**

**[Time: 90 Minutes]****[Max. Marks: 50 Marks]**

**Faculty : Pharmacy**  
**Subject : Pharmaceutical Chemistry**  
**PAPER – II**  
**Q.P. CODE: P002**

Your answers should be specific to the Questions asked.

**Answer All The Questions****10 X 05 = 50 Marks**

1. Explain various physiochemical parameters in QSAR with special reference to electronic and hydrophobic parameters.
2. Suggest the mechanisms involved in the following:
  - i. Pyrrole to 3-Chloropyridine
  - ii. Pinacole-Pinacolone rearrangement
3. With suitable examples, explain the mechanism of action of plant products uses as antineoplastic agents.
4. Explain receptor binding assays with suitable examples.
5. Explain the design and development of proton pump inhibitors.
6. Explain the role of immunostimulants and immunosuppressants.
7. Enumerate the third generation cephalosporins with their therapeutic applications.
8. Explain the principles of green chemistry. Add a note on the applications microwave irradiation techniques.
9. Explain disconnection approach with suitable examples.
10. Explain the design and development of anyone enzyme inhibitor.

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