



**Rajiv Gandhi University of Health Sciences**  
**First Year M.Pharm Degree Examination - May 2012**

[Time: 3 Hours]

[Max. Marks: 100]

**ADVANCED PHARMACOLOGY AND TOXICOLOGY**

**PAPER II**

**(RS 2 & RS 3)**

**Q.P. CODE: 9242**

Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary. Answer all questions

**LONG ESSAY (Answer any TWO)**

**2 X 20 = 40 Marks**

1. a) Define Epilepsy and Seizure; classify the epileptic seizures  
b) Classify anti epileptic agents with examples, describe the mechanism of action, pharmacology and mention the adverse reactions and drug interactions of Phenytoin.
2. a) Explain the pathophysiology of arrhythmia  
b) Classify anti arrhythmics with examples and explain in detail the pharmacology of Quinidine and mention its drug interactions
3. a) Explain in detail about immunomodulators and classify them  
b) Write notes on drugs used for Rheumatoid arthritis.

**SHORT ESSAY (Answer any FIVE)**

**5 X 10 = 50 Marks**

4. Catecholamines
5. Mechanism of multi drug resistance (MDR)
6. D-Tubocurarine
7. Biotransformation and toxicokinetics
8. Explain the mechanism of action and mention the adverse reactions of Oral antidiabetics.
9. Anti Retro viral therapy for AIDS

**SHORT NOTES**

**2 X 5 = 10 Marks**

10. Opioid receptors
11. Furosemide

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