

# Rajiv Gandhi University of Health Sciences

First Semester M. Pharm Degree Examination - 20-Jan-2020

[Time: 3 Hours]

[Max. Marks: 75]

## Advanced Pharmacology - I

**Q.P. CODE: 5134**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

### LONG ESSAY (Answer any Three)

**3 X 10 = 30 Marks**

1. Explain the molecular structure and signal transduction of G-protein coupled receptors through secondary messengers.
2. Classify anti-hypertensive with examples. Describe the pharmacotherapy of hypertension and write the mechanism of action of beta blockers.
3. Explain the steps involved in neurohumoral transmission in central nervous system. Add a note on any one neurotransmitter of CNS.
4. Define and classify sedatives and hypnotics with examples. Write the pharmacology of Barbiturates.

### SHORT ESSAY (Answer any Nine)

**9 X 5 = 45 Marks**

5. Plasma half life and its significance.
6. Write the physiological and pathological role of kinins.
7. Explain the extra pyramidal side effect of antipsychotic drug.
8. Write the uses of anti-platelet drugs and give two examples
9. Classify H<sub>1</sub> blockers and write the uses and adverse effects of Ranitidine.
10. Explain the role of diuretic as antihypertensive therapy.
11. Discuss the mechanism of action of succinyl choline.
12. Explain the physiological role of serotonin in brain.
13. Write note on drug receptor interaction.
14. Write the uses and adverse effects of Phenytoin.

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