

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**Ph.D Entrance Examination – 06-Mar-2020**

**[Time: 90 Minutes]**

**[Max. Marks: 50 Marks]**

**FACULTY: PHARMACY**  
**SUBJECT: PHARMACOLOGY**  
**PAPER – II**  
**Q.P. CODE: P005**

Your answers should be specific to the Questions asked.

**Answer All The Following Questions**

**10 X 05 = 50 Marks**

1. Enumerate signal transduction pathways of GPCRs. Explain Gq mediated signal transduction pathway.
2. Discuss various clinical laboratory tests used to diagnose pathological states in liver dysfunction.
3. Enlist compartmental models of bioavailability. Discuss significance of various pharmacokinetic parameters used in BA/BE.
4. Explain various animal models to screen antiulcer drugs.
5. Explain principle and applications of flow cytometry.
6. Discuss etiology and pathogenesis of atherosclerosis.
7. Write a note on dose adjustment in the geriatrics.
8. Discuss advance treatments for Alzheimer disease.
9. Write applications of recombinant DNA technology.
10. Discuss chronic toxicity study as per OECD guideline.

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