

Rajiv Gandhi University of Health Sciences

Ph.D Entrance Examination – MARCH-2019

[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 Questions

10 X 05 = 50 Marks

1. Explain the principle, process and applications of gene cloning.
2. Classify antihypertensive drugs. Explain the pharmacology of drugs acting on rennin angiotensin system.
3. Define and classify gene cloning vector. Explain plasmid as a gene cloning vectors.
4. Discuss brief about objective composition, functions of IAEC as per CPCSEA guidelines.
5. Write preclinical careening methods for nootropic activity.
6. Enlist the *in-vivo* and *in-vitro* screening methods for antiulcer drugs. Explain any two methods.
7. Elaborate on different phases of clinical trials.
8. Explain role of nitric oxide and endothelin modulators.
9. Describe therapeutic drug monitoring.
10. Write note on patch clamp technique.

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