

Rajiv Gandhi University of Health Sciences, Karnataka

First Semester M. Pharm Degree Examination - 10-Nov-2023

[Time: 3 Hours]

[Max. Marks: 75]

Cellular and Molecular Pharmacology

Q.P. CODE: 5136

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

Answer All The Questions

10 X 7.5 = 75 Marks

1. What is apoptosis? Explain the regulators of apoptosis.
2. Discuss about gene mapping and cloning of disease gene.
3. Describe the desirable properties of plasmids to be used as cloning vectors.
4. Explain the role of third messenger in signal transduction.
5. Discuss the basic principle and applications of RT-PCR.
6. How polymorphisms affect drug metabolism.
7. Discuss the functions of functional genomics and nutrigenomics.
8. What are types of immunotherapeutics and humanization antibody therapy?
9. What are the biological significance of siRNA and miRNA?
10. Write a note on tyrosine receptor and nuclear receptors.

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