

Rajiv Gandhi University of Health Sciences, Karnataka

First Semester M. Pharm Degree Examination - 07-Jun-2024

[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. Explain gene expression and its regulation.
2. Classify receptors and discuss molecular structure of ligand gates and its role.
3. Explain JAK/STAT signaling pathways.
4. Discuss procedure and application DNA electrophoresis.
5. Write a note on humanization antibody therapy.
6. Discuss principle and applications of cell viability assays.
7. Write a note on cryopreservation in cellular laboratory.
8. List out the importance of siRNA in diagnostic and cancer screening models.
9. Explain the role of nitric oxide and diacylglycerol as a secondary messenger.
10. Classify and explain types of necrosis, what are the common causes of necrosis.

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