

Rajiv Gandhi University of Health Sciences, Karnataka

First Semester M. Pharm Degree Examination - 17-Nov-2021

[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 the intrinsic and extrinsic pathway of apoptosis. Write any one method for apoptosis.
2. What are the principles involved in recombinant DNA technology?
3. What are basic equipment used in cell culture lab. Discuss their role and applications.
4. Explain the role of calcium ions, inositol and as secondary messengers.
5. Explain the salient features of various vectors in gene therapy.
6. Write a note on RT-PCR techniques and its applications.
7. Explain the principles and applications of MTT assay.
8. How do biosimilars differ from biological and their applications?
9. Explain the MAPK signalling pathway.
10. Explain the principles and applications of flow cytometry.

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