[Max. Marks: 75]

ker.com

## **Chemistry of Natural Products** Q.P. CODE: 5120

Your answers should be specific to the questions asked. Draw neat, labeled diagrams wherever necessary.

## LONG ESSAY (Answer any Three)

- 1. Discuss about the development of anti-cancer agents from natural product leads.
- 2. Elucidate the structure of ephedrine and write a note on stereochemistry of ephedrine.
- 3. Give the structural elucidation of progesterone.

Kanker.com

Rajiv Gandhi University of I

4. What are monoclonal antibodies? Explain in detail how they are produced through hybridoma technology

## SHORT ESSAY (Answer any Nine)

- 5. Discuss in brief about Curare alkaloids as neuromuscular blocking drugs.
- 6. Discuss about the new generation cepahlosporins.
- 7. Classify alkaloids with examples. Add a note on their biological activity.
- 8. What are flavonoids? Give the general methods of structural determination of flavonoids.
- 9. Discuss the chemistry and biological importance of cardiac-glycosides.
- 10. Classify terpenoids with examples. Write a note on isolation of terpenoids.
- 11. Explain in brief about recombinant DNA technology.
- 12. Give four important chemical constituents from a) Salacia reticulata b) Swertia chirata c) Pterocarpus marsupiam. Mention their medicinal uses.
- 13. How do you characterize the structure of an steroid compound by using NMR and Mass Spectroscopy
- Discuss in brief the use of IR spectroscopy as a tool for the structural characterization of 14. www.FirstRank\*\* natural compounds.

9X 5 = 45 Marks

3X 10 = 30 Marks

## First Semester M. Pharm Degree Examination [Time: 3 Hours]