

Rajiv Gandhi University of Health Sciences
First Year M.Pharm Degree Examination - Nov 2011

[Time: 3 Hours]

[Max. Marks: 100]

MEDICINAL PLANT BIOTECHNOLOGY**PAPER II****Q.P. CODE: 9214**

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

LONG ESSAY (Answer any TWO)**2 X 20 = 40 Marks**

1. Explain the different methods in plant genetics to improve the quality of medicinal plants
2. Describe the various methods of gene transfer techniques
3. Explain germplasm conservation in detail

SHORT ESSAY (Answer any FIVE)**5 X 10 = 50 Marks**

4. Discuss the role of electrophoresis in the genetically modified plants
5. Write note on protoplast culture and protoplast fusion
6. Explain the different methods of isolating and purifying the plant enzymes
7. Explain the production of shikonin in detail
8. Explain the Principle and Applications involved in biotransformation
9. Write briefly about the structure and molecular organization of cell

SHORT NOTES**2 X 5 = 10 Marks**

10. Immobilization of enzymes and its applications
11. Edible vaccine

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