

Rajiv Gandhi University of Health Sciences
First Year M. Pharm Degree Examination - May 2013

[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. What is plant tissue culture? Give the application of different types of plant tissue culture techniques with suitable examples
2. What are secondary metabolites? Discuss the role of plant growth regulators in the production of secondary metabolites
3. a) Write the use of PCR in gene mapping
b) Explain chemical mediated gene transfer in plant

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

4. Explain in detail the applications of DNA recombinant technology
5. The use of radioactive isotopes in the production of genetically modified plant
6. In-vitro methods of conservation of germplasm and its applications
7. Explain in detail about an immobilization of enzymes and its applications
8. Write a note on polyploidy & mutation
9. Discuss in detail about the multiple shoot culture and their applications

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

10. Chemodemes
11. Papain production

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