

# Rajiv Gandhi University of Health Sciences, Karnataka

## First Year M. Pharm Degree Examination – NOV 2016

**Time: Three Hours****Max. Marks: 100 Marks**

### MEDICINAL PLANT CULTIVATION AND BIOTECHNOLOGY (Revised scheme 4)

**Q.P. CODE: 9386**

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

**LONG ESSAYS (Answer any Two)****2 x 20 = 40 Marks**

1. Define tissue culture and its application. Discuss in detail the haploid and protoplast culture technique.
2. Discuss the different approaches for the production of transgenic plants and mention the applications of transgenic plants.
3. Explain in detail the importance of conservation of medicinal plants and its types.

**SHORT ESSAYS (Answer any FIVE)****5 x 10 = 50 Marks**

4. Applications of PCR in gene mapping.
5. Immobilization techniques and their applications.
6. Export potential of medicinal plants and phytopharmaceuticals.
7. Mutation and polyploidy.
8. Discuss about bioinformatics.
9. Cultivation and post harvest care of Ashwagandha.

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

10. Plant tissue culture media and its composition.
11. Production of papain.

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