[Max. Marks: 100]

MEDICINAL PLANT BIOTECHNOLOGY

First Year M.Pharm Degree Examination – Oct/Nov 2014

PAPER II

Q.P. CODE : 9214

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

LONG ESSAY (Answer any TWO)

[Time: 3 Hours]

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- What is embryogenesis? Give its applications. Describe the methods useful in effecting 1. embryogenesis and biotransformation.
- 2. Describe structural and molecular organization of cell.
- 3. Describe the role of Agarobacterium in gene transfer in plants. Write the applications of the technique.

SHORT ESSAY (Answer any FIVE)

- 4. Discuss the applications of radioisotopes to localize the transferred gene.
- 5. Discuss the applications of transgenic plants in production of phytopharmaceuticals.
- 6. Describe the method and applications of immobilization of enzymes.
- 7. In-situ conservation of germplasm
- 8. Explain regulation of gene expression in plant.
- 9. PCR gene mapping

SHORT NOTES

- 10. What is micropropagation?
- Discuss the source, isolation and uses of papain. 11.

2 X 5 = 10 Marks

2 X 20 = 40 Marks

5 X 10 = 50 Marks