QP Code: 107330 Reg No: ......

## First Year M.Pharm Degree Examinations August 2017 (Pharmacognosy & Phytochemistry) Paper III - Applied Pharmacognosy and Plant Biotechnology

Time: 3 hrs Maximum Marks: 100

- Answer all questions
- Draw diagrams wherever necessary

Essays: (2x20 = 40)

- 1. Explain in detail in-vitro and in-vivo screening methods for anti-cancer activity
- 2. Explain the various methods of gene transfer in detail

Short Essays: (6x10=60)

- 3. Explain chemical and biomarkers in herbal drug standardization.
- 4. Explain the herb-drug interaction.
- 5. What are the genetic factors affecting the production of phytochemicals.
- 6. What are the applications of PCR in gene mapping
- 7. Explain the standards for ayurvedic formulation.
- 8. Describe the importance of biotransformation with suitable examples

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