## SRI PADMAVATHI MAHILA VISVAVIDYALAYAM::TIRUPATI (Women's University)

M.Phil./Ph.D. Entrance Test - September, 2012

## DEPARTMENT OF BIOTECHNOLOGY

Time: 3 hours Max.marks:100

Answer any Five questions
All questions carry equal marks

(5X20=100)

- 1. Give a brief account of Genome organization in Prokaryotes and Eukaryotes.
- 2. Explain the principle and different methods of sterilization.
- 3. Write an essay on allosteric regulation of enzyme activities.
- 4. Explain the principle and mechanism of antigen and antibody interactions.
- 5. Enumerate the differences between Prokaryotic and Eukaryotic Translational Mechanisms.
- 6. Write an essay on biosynthesis of fatty acids and glycolipids.
- 7. Explain the basic principles, types and applications of electrophoresis.
- 8. Write about the different methods of introduction of rDNA into host cells.