QP	Code:101109	Reg.No.:	
<b>~</b> :	0040.101100		

## PG Degree Examinations in Microbiology (MD) - May 2013

## Paper I- General Microbiology and Immunology

Time: 3 hrs Max marks:100

- Answer all questions
- Draw diagrams wherever necessary

Essays: (20)

Define autoimmunity. What are the various mechanisms of auto immunity.
Mention briefly on systemic auto immune diseases.

Short essays: (10x8=80)

- 2. Pathogenesis and diagnosis of Type III immune complex diseases.
- 3. Define cytokines. List them and describe its roles in immunological, inflammatory and reparative host responses.
- Define major histocompatibility complex. Elaborate on its various chromosome coded proteins and HLA typing.
- 5. Define primary and secondary lymphoid organs. Discuss in detail the role played by each one of them.
- 6. What are the various genetic mechanisms by which drug resistance is transmitted in bacteria.
- 7. Define the role of biochemical reactions and fermentation reactions in identification of bacteria.
- 8. Classify various methods of moist heat sterilization and explain each.
- 9. Discuss in detail bacterial flagellar structure and its application in microbiology.