

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2018  
(Third Semester)

Branch - **BIOCHEMISTRY**

**CORE ELECTIVE : I IMMUNOLOGY**

Time: Three Hours

Maximum: 75 Marks

**SECTION -A (30 Marks)**

Answer **ALL** questions  
**ALL** questions carry **EQUAL** Marks ( 5 x 6 = 30)

- 1 a Describe the structure and function of macrophage.  
OR  
b Give a brief account on nude mice and knockout mice.
- 2 a Give the properties of B-cell epitope.  
OR  
b Write short notes on immunoglobulin genes.
- 3 a Write a brief note on interleukins.  
OR  
b Give a detailed account of complement components.
- 4 a Write notes on T & B - cell tolerance.  
OR  
b Differentiate active and passive immunization.
- 5 a Explain autoimmunity.  
OR  
b Describe the structure of HIV.

**SECTION -B (45 Marks)**

Answer any **THREE** questions  
**ALL** questions carry **EQUAL** Marks (3 x 15 = 45)

- 6 Discuss in detail about the role of adhesion molecules in immune response.
- 7 Explain in detail the antigen processing and presentation.
- 8 Explain the steps involved in classical pathway of complement activity.
- 9 Write a detailed note on the anaphylactic hypersensitivity.
- 10 Describe elaborately the immunotherapy in cancer.