

**PSG COLLEGE OF ARTS & SCIENCE**  
(AUTONOMOUS)  
**BSc DEGREE EXAMINATION MAY 2019**  
(Fifth Semester)

Branch - **BIOCHEMISTRY**

**IMMUNOLOGY**

Time : Three Hours

Maximum : 75 Marks

**SECTION-A (20 Marks!)**

Answer **ALL** questions

**ALL** questions carry **EQUAL** marks (10 x 2 = 20)

- 1 Define Bonemarrow and give two functions of it.
- 2 What are adjuvants?
- 3 Define eosinophils.
- 4 Name any two specific Tcell surface markers.
- 5 How do antigen interact with antibody?
- 6 Define an epitope.
- 7 Myeloma cells - Define.
- 8 Give the principle behind RIA.
- 9 What do you mean by graft acceptance?
- 10 Nam any two Vaccines .

**SECTION - B (25 Marks)**

Answer **ALL** Questions

**ALL** Questions Carry **EQUAL** Marks (5 x 5 = 25)

- 11 a Discuss on any two secondary Lymphoid organs.  
OR'  
b Notes on (i) Immune tolerance (ii) Self Antigens.
- 12 a What are NK cells? Highlight on theirs functions.  
OR  
b Notes on (i) Inflammation (ii) Cytokines.
- 13 a Comment on *in vivo* antigen antibody interaction.  
OR  
b What is type IV hypersensitivity reaction?
- 14 a Brief on Clonal selection theory.  
OR  
b Give the principle and working of ELISA.
- 15 a Outline the mechanism behind the development of resistance to Tumour.  
OR  
b What are the immunological abnormalities behind AIDS?

**SECTION - C (30 Marks)**

Answer any **THREE** Questions

**ALL** Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Comment on acquired immunity.
- 17 What are B cells? Give their functions.
- 18 Sketch the structure of antibody along with its functions.
- 19 What are complement component? List out their functions.
- 20 Notes on (i) Passive immunization (ii) HLA typing.