PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2018
(Fifth Semester)

Branch - **BIOCHEMISTRY**

IMMUNOLOGY

Time : Three Hours   Maximum : 75 Marks

SECTION-A (20 Marks)
V .   .   Answer **ALL** questions
ALL questions carry **EQUAL** marks   (1 0 x 2 = 20)

1   Define Immune Tolerance.
2   What are Self Antigens?
3   Define Bone marrow and give two functions of it.
4   What are Adjuvants?
5   Give any two important properties of Antigens.
6   Hypersensitivity Reactions - Define.
7   What are Hybridomas?
8   Give the principle of Gel diffusion.
9   Define Xenograt.
10   What are Vaccines?

SECTION - B (25 Marks)
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

11 a Discuss on the Cell mediated immune response.
OR
b Notes i) Synthetic Antigens ii) Cross Reactivity

12 a Brief on T cells along with their functions.
OR   '
b Give the essential features of Cytokines.

13 a   With labeled sketch, discuss the structure of Antibody.
OR
b Brief on cytotoxic T cells.

14 a How do B-cells respond to Antigens? Discus on it.
OR
b Give the principle and working of Fluorescent Antibody Technique.

15 a Outline the mechanism behind Graft Rejection.
OR
b Write a brief account on AIDS.

SECTION - C (30 Marks)
Answer any **THREE** Questions
ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

16   Discuss on any two primary Lymphoid organs.

.17   What is Phagocytosis? Give its role in defence mechanism.

18   With suitable example explain Delayed Hypersensitivity Reaction.

19   Explain the components of Complement system.

20   Explain the mechanism behind Rheumatoid Arthritis.