

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2017
(Fifth Semester)

Branch - **BIOCHEMISTRY**

IMMUNOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10x2 = 20)

- 1 Define Peyer's patches of small intestine.
- 2 What are Paratopes?
- 3 What is synergism?
- 4 Define phagocytosis.
- 5 Write the immunoglobulin that present in body fluids.
- 6 Define opsonization.
- 7 What are myeloma cells?
- 8 Write the principle of RIA.
- 9 What is an syngraft?
- 10 Write the cells involved in graft rejection. ,

SECTION - B (25 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5x5 = 25)

- 11 a Discuss about the essential features of antigens.
OR
b Explain the types of active immune system.
- 12 a Write an account on macrophages and their functions.
OR
b Give an account on cytokines and their mode of action.
- 13 a Explain about Antigen - Antibody interaction invivo.
OR
b Write in detail about delayed hypersensitivity.
- 14 a Give an brief account on clonal selection theory.
OR
b Discuss the different types of ELISA.
- 15 a Describe the mechanism of graft rejection.
OR
b Give the immunization schedule and their importance.

SECTION - C (30 Marks!)

Answer any **THREE** Questions

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

- 16 Write an brief account on primary lymphoid organs.
- 17 Write in detail about T & B cells and their functions.
- 18 Explain about the biological functions and structure of immunoglobulin.
- 19 Explain the principles and applications of diffusion and immuno electrophoresis.
- 20 Write a note on following :
i) Vaccines ii) AIDS