PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2019

(Fifth Semester)

Branch - **BIOCHEMISTRY**

IMMUNOLOGY

Time: Three Hours Maximum: 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

ALL questions carry EQUAL marks $(10 \times 2 = 20)$

- 1 Write any two major role of spleen.
- What is Forssman antigen?
- What are killer cells?
- 4 Mention the types of mast cells.
- 5 Define opsonisation.
- 6 What is urticaria?
- What are interleukins? Mention their role.
- 8 Write any two applications of immuno electrophoresis.
- 9 What is xeno graft?
- 10 What is serum sickness?

SECTION - B (25 Marks!

Answer ALL Questions

ALL Questions Carry EQUAL Marks $(5 \times 5 = 25)$

11 a Describe the process of phagocytosis.

OR

- b Explain the immunological functions of lymph node.
- 12 a Discuss the characteristics of B lymphocyte with surface markers.

 $\cap \mathbb{R}$

- b Describe the structure and functions of neutrophils and monocytes.
- 13 a Explain the structure and properties of IgA.

OR

- b Give a brief note on delayed hypersensitivity.
- 14 a Describe the steps involved in hybridoma technology and its applications.

OR

- b Write about the technique and applications of RIA.
- 15 a Explain the mechanism of graft rejection.

OR

b Give a brief note on vaccines.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks $(3 \times 10 = 30)$

- Discuss in detail about the primary lymphoid organs.
- 17 Describe about cytokines and their mode of action.
- Write about type I hypersensitivity reactions.
- Give a detailed note on the techniques and applications of ELISA.
- 20 Explain the immunological abnormalities in AIDS.