

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 2017
(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 What is thymus?
- 2 Write about the haptens.
- 3 What is interferon? Give example.
- 4 Define apoptosis.
- 5 Write about the immunogen.
- 6 What are interleukins?
- 7 Write about memory cells.
- 8 Write about the principle of electrophoresis.
- 9 Define xenograft. Give example.
- 10 Write about attenuation.

SECTION - B (25 Marks)

Answer **ALL** Questions

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

- 11 a Explain about the types of immunity.
OR .
b Give a brief account on cells involved in immune system.
- 12 a Explain in detail about phagocytosis.
OR
b Explain about the cytokines and their mode of action.
- 13 a Write an account on the properties of antibodies.
OR
b Describe about cytotoxic T cells.
- 14 a Write a short note on hybridoma technology.
OR
b Discuss about the principle and application of RIA.
- 15 a Write about the HLA typing and its significance.
* OR
b Explain in detail about vaccines.

SECTION - C (30 Marks!)

Answer any **THREE** Questions

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

- 16 Explain in detail about primary lymphoid organs.
- 17 Give a brief account on structure and function of granulocytes.
- 18 Write about the antigen antibody invivo.
- 19 Give an account on complement components and their role.
- 20 Explain in detail about the types of immunization.

Z-Z-Z

END