

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(Fourth Semester)

Branch – BIOCHEMISTRY

BASICS OF IMMUNOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry **EQUAL** marks (10 x 1 = 10)

Cont..

SECTION - B (35 Marks)

Answer ALL Questions

**Answer ALL Questions
ALL Questions Carry EQUAL Marks ($5 \times 7 = 35$)**

- 11 a Differentiate between Innate and Acquired immunity.
(OR)

b Summarize on i) Cross reactivity ii) Synthetic antigens.

12 a Describe the structure and functions of White blood cells.
(OR)

b Bring out the structure and functions of receptors on the surface of T Lymphocytes.

13 a Narrate the mechanism and applications of Agglutination reaction.
(OR)

b Analyze the Type -IV Delayed Hypersensitivity reaction.

14 a Explain the Clonal selection theory.
(OR)

b Describe the principle and applications of Fluorescent Antibody Technique.

15 a State the types and significance of Vaccines.
(OR)

b Explain the origin, pathogenesis and treatment of Rheumatoid arthritis.

SECTION - C (30 Marks)

Answer any THREE Questions

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

- 16 Analyze the structure and functions of Secondary Lymphoid organs.
 - 17 Examine Cytokines and their mode of action.
 - 18 Elucidate the types, structure and biological functions of Immunoglobulins.
 - 19 Outline the Classical pathway of biosynthesis and significance of Complement system.
 - 20 Summarize the immunological abnormalities behind AIDS.

Z-Z-Z

END