

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024  
(Sixth Semester)

Branch – ZOOLOGY

IMMUNOLOGY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 Which of the following is considered as a primary lymphoid organ?  
(i) Spleen (ii) Lymph nodes  
(iii) Thymus (iv) Tonsils
- 2 How many types of antibodies are present in man?  
(i) Five (ii) Three  
(iii) Two (iv) Four
- 3 Which of the following is an example of an adaptive cell therapy used in cancer treatment?  
(i) Chemotherapy (ii) Radiation therapy  
(iii) Monoclonal antibodies (iv) CAR T-cell therapy
- 4 What is immunoprophylaxis?  
(i) Treatment of infectious diseases  
(ii) Prevention of infectious diseases through vaccination  
(iii) Antibiotic therapy for bacterial infections  
(iv) Physical barriers to infection
- 5 What does ELISA stands for?  
(i) Electron-Linked Immunoassay  
(ii) Enzyme-Linked Immunological Analysis  
(iii) Enzyme-Linked Immunosorbent Assay  
(iv) Elevated Lymphocyte Inhibition and Specific Antibodies

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Explain the physical and mechanical factor of innate immunity.  
OR  
b Illustrate the functions of primary lymphoid organ.
- 7 a Describe the properties of immunoglobins.  
OR  
b Differentiate the epitope and paratope interaction.
- 8 a Explain the causes of tumor.  
OR  
b Narrate the characteristics of autoimmune diseases.

Cont...

- 9 a Classify the bacterial infective diseases.  
OR  
b Summarise the natural active immunization.
- 10 a How are antibodies synthesized in the body?  
OR  
b Explain the clinical applications of HLA typing.

**SECTION -C (30 Marks)**

Answer ALL questions  
ALL questions carry EQUAL Marks (5 x 6 = 30)

- 11 a Discuss the secondary lymphoid organ.  
OR  
b Enumerate the B lymphocytes and their functions.
- 12 a Sketch the detail structure of immunoglobulin.  
OR  
b Discuss the humoral immune response.
- 13 a Summarise the MHC and their functions.  
OR  
b Explain the immediate hypersensitivity reaction.
- 14 a Elucidate the autograft transplantation immunology.  
OR  
b Classify the secondary immunodeficiency diseases.
- 15 a Enumerate the rocket immunoelectrophoresis and their applications.  
OR  
b Examine the procedure of ELISA test for HIV.

Z-Z-Z

END