

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(Sixth Semester)

Branch – ZOOLOGY

IMMUNOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

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

- 1 B-cells and T-cells are two types of cells involved in _____.
(i) Innate Immunity (ii) Active immunity
(iii) Passive immunity (iv) Acquired immunity
- 2 Which of the following systems protects our body against disease-causing microbes?
(i) Immune system (ii) Digestive system
(iii) Excretory system (iv) Respiratory system
- 3 The Ig that mediates allergic reaction is _____.
(i) IgM (ii) IgG (iii) IgA (iv) IgE
- 4 Agglutination reaction is more sensitive than precipitation for the detection of _____.
(i) antigens (ii) antibodies
(iii) complement (iv) antigen –antibody complexes
- 5 Which one of the following is considered an autoimmune disease?
(i) rheumatoid arthritis (ii) AIDS
(iii) SCID (iv) gammaglobulinemia
- 6 An example of a type III immune complex disease is:
(i) Contact dermatitis (ii) Graft rejection
(iii) Serum sickness (iv) Atopy
- 7 HIV attacks _____.
(i) T helper cells (ii) T cytotoxic cells
(iii) B cells (iv) macrophages
- 8 In severe combined immune deficiency (SCID), the patients are deficient in _____.
(i) B cells (ii) T cells (iii) both a and b (iv) IgA
- 9 Which of the following is an immunoelectrophoresis technique?
(i) coimmunoelectrophoresis (ii) 2- dimensional immunoelectrophoresis
(iii) both (a) and (b) (iv) electrophoresis
- 10 Which of the following is a positively charged matrix for ion exchange chromatography?
(i) CM cellulose (ii) None of these
(iii) DEAE cellulose (iv) phosphocellulose

Cont...

SECTION - B (35 Marks)Answer **ALL** Questions**ALL** Questions Carry **EQUAL** Marks (5 x 7 = 35)

- 11 a Explain the process of phagocytosis.
OR
b Difference between primary and secondary lymphoid organs.
- 12 a Write down the properties of immunoglobulins.
OR
b What are the factors causing Immune Response?
- 13 a Write a short note on Hypersensitivity.
OR
b Give a brief note on mechanism of Anaphylaxis.
- 14 a State the diagnosis of Autoimmune diseases.
OR
b Classify the types of graft.
- 15 a Explain shortly about Enzyme – Linked Immuno Sorbent Assay (ELISA)
OR
b Describe about the production Monoclonal Antibodies.

SECTION - C (30 Marks)Answer any **THREE** Questions**ALL** Questions Carry **EQUAL** Marks (3 x 10 = 30)

16. Explain in detail about types of immunity.
17. Elucidate the detection of antigen - antibody reaction.
18. Describe in detail about the types of Tumour immunology and its properties.
19. How to diagnose and control the disease of AIDS.
20. Write in detail about the biosynthesis of antibody.

Z-Z-Z

END