

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2019
(Third Semester)

Branch - BIOTECHNOLOGY

IMMUNOBIOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 2 = 20)

- 1 Why haptens are not Antigenic?
- 2 What is adjuvant give two examples.
- 3 What does isotype mean?
- 4 What are the four major functions of the complement system?
- 5 What is the main difference between cellular immunity and humoral immunity?
- 6 What is the difference between B and T cells?
- 7 What type of hypersensitivity is autoimmune disease?
- 8 What are the disadvantages of using monoclonal antibodies?
- 9 What are the types of immunization?
- 10 Name any two enzymes used in ELISA.

SECTION - B (25 Marks)

Answer ALL Questions

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

- 11 a Write a note on Innate immunity.
OR
b Explain the role of Dendritic cells in immune response.
- 12 a Describe MHC proteins and its role in immune response in short.
OR
b Illustrate the structure and function of immunoglobulin's.
- 13 a Enumerate the differentiation and activation of B cells in brief.
OR
b Assess the role of effector cells in short.
- 14 a State the immunology of HIV infection in brief.
OR
b Discuss modern antibiotic therapy in short.
- 15 a Sketch out the importance of agglutination with suitable example.
OR
b Explain Immunohistology.

SECTION - C (30 Marks)

Answer any THREE Questions

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

- 16 Illustrate cells and organs of the immune system in detail.
- 17 Elucidate antigen processing and presentation pathways in detail.
- 18 Enumerate the role of Cytokines in immune regulation.
- 19 Analyze the immunology of cancer in detail.
- 20 Assess the role of enzyme immunoassay with neat diagrams.