

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2025
(Third Semester)

Branch – ENVIRONMENTAL SCIENCE

CLINICAL IMMUNOLOGY

Time : Three Hours

Maximum : 75 Marks

Answer ALL questions
ALL questions carry EQUAL marks (5 x 15 = 75)

- 1 a Explain the factors that influence immunogenicity.
b Write a note on (i) adjuvants (ii) epitopes
OR
c Outline the basic structure of antibodies.
d Elaborate on the different classes of antibodies.
- 2 a Organize the membrane receptors of B Cells.
b Illustrate on the subpopulations of T Cells.
OR
c Examine the classical pathway for complement activation.
d Make use of different types of hypersensitivity.
- 3 a Explain the methodologies of precipitation reactions.
b Infer on the direct and indirect immunofluorescence staining of membrane antigens.
OR
c Organize the principle and applications of ELISA.
d Interpret the methodology and applications of immunoelectrophoresis.
- 4 a Explain the causes and abnormalities associated with rheumatoid arthritis.
b Outline the structure of HIV.
OR
c Infer on the diagnosis and routine screening to rule out Sexually Transmitted Diseases.
d Discuss the immunologic abnormalities associated with HIV infection.
- 5 a Write a note on (i) AFP (ii) CEA
b Summarize the principle and application of western blotting.
OR
c Explain the production of monoclonal antibodies.
d Interpret the uses and normal values for prostate specific antigen test.

Z-Z-Z END

