

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2019
(Fifth Semester)
Branch- MICROBIOLOGY
IMMUNOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks!)

Answer ALL questions

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

Write a note on the following:

- 1 Haematopoiesis.
- 2 Diapedesis.
- 3 Hapten.
- 4 CSQ.
- 5 ADCC.
- 6 Coomb's test.
- 7 RIST.
- 8 Histamine.
- 9 Allograft.
- 10 SLE.

SECTION - B (25 Marks)

Answer ALL Questions

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

- 11 a Write about the process of extravasation and immune response by neutrophils.
OR
b Give an account on the importance of Thymus as a lymphoid organ.
- 12 a What is complement? Discuss about the classical pathway of activation.
OR
b What is affinity and avidity?
- 13 a Explain how to produce monoclonal antibodies.
OR
b Give an account on humoral effector response.
- 14 a Write an account on ELISA and its types.
OR
b Write an account on Radio immuno assay.
- 15 a What is tissue rejection? How to avoid it?
OR
b Write an account on systemic auto immune disorders.

SECTION - C (30 Marks)

Answer any THREE Questions

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

- 16 Comment on the origin, development and differentiation of immune cells.
- 17 Discuss the structure of immunoglobulin molecule. Add a note on IgM antibody.
- 18 What is precipitation reaction? Write the assays developed based on this principle.
- 19 What are the various types of vaccines available today? What are its rationale?