

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2022
(Third Semester)

Branch – APPLIED MICROBIOLOGY

IMMUNOTECHNOLOGY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry **EQUAL** marks

$$(5 \times 1 = 5)$$

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

$$(5 \times 3 = 15)$$

- 6 a Discuss how skin provide the first line of defense.
OR
b Describe the role of complement in humoral immunity.

7 a Explain differentiation and maturation of T cell.
OR
b State about antibody diversity.

8 a Enlist the function of the complement system.
OR
b What is autoimmunity? Explain any two autoimmune disorders.

9 a Discuss innate and adaptive immunity to viruses.
OR
b List out the types, sources and functions of interleukins.

10 a Compare and comment on Class I and Class II MHC molecules.
OR
b Brief about immunopotentiation and immunosuppression.

Cont.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry **EQUAL** Marks

(5 x 6 = 30)

- 11 a Explain briefly about the T cell mediated immunity.
- OR
b Describe award of Nobel Prizes of different workers in immunology.
- 12 a Elaborate molecular biology of immunoglobulin synthesis..
OR
b Write an essay on Ag-Ab interactions.
- 13 a Briefly explain delayed type hypersensitivity.
OR
b Comment on any two primary immunodeficiency disorders.
- 14 a Discuss immunity to (i) Fungi (ii) Protozoa and (iii) Nematodes.
OR
b Give detailed account on types of vaccine with merits and demerits.
- 15 a Explain how could tumor escapes host immune mechanisms?
OR
b Describe the types of immunosuppressive therapy for organ transplantation.

Z-Z-Z

END