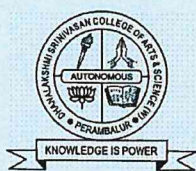


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**DHANALAKSHMI SRINIVASAN COLLEGE
OF ARTS & SCIENCE FOR WOMEN
(AUTONOMOUS)**

(For Candidates admitted from 2018-2019 onwards)



UG DEGREE EXAMINATIONS APRIL – 2021

B.SC - BIOCHEMISTRY

IMMUNOLOGY

Time: 3 Hrs

Max.Marks: 75

PART - A

CHOOSE THE CORRECT ANSWER.

(10X1=10)

1. Which of the following cells is involved in cell-mediated immunity?
a) T-cells b) B-cells c) Mast cells d) Both T and B cells
2. B-cells and T-cells are two types of cells involved in
a) Innate Immunity b) Active immunity c) Passive immunity d) Acquired immunity
3. Which of the following conveys the longest-lasting immunity to an infectious agent?
a) Active immunity b) Passive immunity
c) Both (a) and (b) d) None of the above
4. Which of the following statements is true about Passive Immunity?
a) This immunity causes reactions b) This immunity develops immediately
c) This immunity lasts only for a few weeks or months d) All of the above
5. How many types of antibodies are there?
a) Five b) Three c) Two d) Four
6. Which of the following cells is involved in humoral immunity?
a) T-cells b) B-cells c) Mast cells d) Both T and B cells
7. What is the name of MHC in humans?
a) HLA b) H2 c) Adjuvants d) None of these
8. Name the cell which receives antigen presented by MHC molecule.
a) Nk cells b) B-cells c) T-cells d) Macrophages
9. In monoclonal antibody technology, tumor cells that can replicate endlessly are fused with mammalian cells that produce an antibody. The result of this cell fusion is a
a) hybridoma b) myeloma c) natural killer cell d) lymphoblast

10. Which is not application of RIA ?

- a) It is used to assay the presence of hepatitis B surface anti gen in donated blood
- b) In analysis of vitamine like riboflavin
- c) T4 & T3 measurement
- d) Digitoxin or digoxin in patients receiving these drugs and measurement its concentration

PART - B

ANSWER ALL THE QUESTIONS.

(5X7=35)

11. a) Explain in detail origin and differentiation of lymphocytes

(OR)

b) Write about Antigen presenting cell.

12. a) Write about active and passive immunization.

(OR)

b) Explain in brief the cell mediated immunity.

13. a) Describe the structure of immunoglobulin.

(OR)

b) Write short note on precipitation.

14. a) Exemplify any two Auto immune diseases.

(OR)

b) Give an account on immune suppressive drugs.

15. a) Explain briefly principle and technique of Immunofluorescence.

(OR)

b) Give an account of ELISA

PART - C

ANSWER ANY THREE QUESTIONS.

(3X10=30)

16. Explain in detail the primary lymphoid organs.

17. Discuss in detail the different phenomena of innate immunity.

18. Describe the biological functions of immunoglobulins.

19. Explain the types of Hypersensitivity in detail.

20. Write an account on Hybridoma technology.