

**Avinashilingam Institute for Home Science and Higher Education for Women  
Coimbatore – 641 043**

**Master's Degree Examination – November 2017  
III Semester**

**Class : II PG  
Major : Zoology**

**Time: 3 hours  
Max. Marks: 60**

**12MZOC16 IMMUNOLOGY**

**Part A**

**10 x 1/2 = 5**

**Choose the correct answer**

1. Father of Immunology is \_\_\_\_\_  
a. Edward Jenner            b. Alexander Fleming            c. Louis Pasteur            d. Karl Landsteiner
2. Acquired immunity is also known as \_\_\_\_\_  
a. Specific            b. Non-specific            c. Adaptive            d. both a and c
3. Antibiotics are produced by \_\_\_\_\_ cells.  
a. T cells            b. Dendritic            c. B cells            d. macrophages
4. Macrophages are components of the \_\_\_\_\_ system.  
a. Large granular lymphocytes            b. Reticuloendothelial  
c. Antigen presenting cells            d. Polymorphonuclear leukocyte
5. The elicited macrophages are \_\_\_\_\_ cells.  
a. Wandering            b. Kupffer            c. microglia            d. sinusoids
6. Microglial cells are found in \_\_\_\_\_ system.  
a. Circulatory            b. Digestive            c. Nervous            d. Muscular
7. Hypersensitivity reactions are of \_\_\_\_\_ types.  
a. Seven            b. Four            c. Three            d. Eight
8. VIS stands for \_\_\_\_\_  
a. Vaccine Information Statement            b. Vatican Information Service  
c. Variable Induction System            d. Viewable Image Size
9. Infinite number of derivatives at a point is termed as \_\_\_\_\_  
a. monogenic            b. Polygenic            c. Polymorphic            d. None of the above
10. Cytokines are \_\_\_\_\_ molecules.  
a. foreign            b. Protein            c. Virus            d. Antigen

**Part B**

**5 x 4 = 20**

**Answer ALL questions**

**Answer should not exceed 200 words or one page**

11.a. Give a brief account on the myeloid cells and lymphoid cells.

(Or)

11.b. Write a brief note on Immune system.

12.a. Give a brief account on agglutination reaction with an example.

(Or)

12.b. Give an account on antibody diversity.

13.a. Write a short note on cytokines.

(Or)

13.b. Comment on the biological activity of compliment components.

14.a. Write a short note on cell mediated immunity.

(Or)

14.b. Comment on the function of Immune response.

15.a. Write a notes on auto immunity.

(Or)

15.b. Comment on the function of active immunization.

**Part C**

**5 x 7 = 35**

**Answer ALL questions**

**Answer should not exceed 600 words or three pages**

16.a. Write an essay on the Mechanism of innate and acquired immunity.

(Or)

16.b. Give a detailed account on B and T cells.

17.a. Write an essay on application of ELISA.

(Or)

17.b. Give a detailed account on structure and functions of immunoglobulin.

18.a. Describe the activation of CD4+ and CD8+.

(Or)

18.b. Write an essay on genes and molecules of MHC.

19.a. Write an essay on the hypersensitivity reaction.

(Or)

19.b. Write a brief account on immune deficiency diseases.

20.a. Discuss on immune therapy as an experimental approach.

(Or)

20.b. Write an essay on vaccine production.

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