

**Avinashilingam Institute for Home Science and higher Education for Women
(Deemed to be University) Coimbatore-641 043**

Master's Degree Examination-November 2018

III Semester

Class: II PG

Major: Zoology

Time: 3 Hrs

Max.Marks:60

17MZOC15-IMMUNOLOGY

Part-A

(10×1/2=10)

Choose the correct answer

1. Process of weakening of virulence of pathogenic organisms is.
(a) Prophylaxis (b) Attenuation (c) Variolation (d) Priming
2. Which among the following is secondary lymphoid organ.
(a) Thymus (b) Bone marrow (c) Bursa of Fabricius (d) Spleen
3. The part of antigen with which the antibody reacts is
(a) Paratope (b) Epitope (c) Active site (d) Binding site
4. Immunoglobulin that can cross the human placenta is
(a) IgG (b) IgA (c) IgM (d) IgD
5. Substances which combine with an antigen to facilitate its phagocytosis.
(a) Opsonin (b) Precipitin (c) Serum albumin (d) Fibrin
6. During deamination an amino acid is converted into.
(a) Acetic acid (b) Pyruvic acid (c) Antibody (d) Taxoid
7. Functions of MHC are.
(a) HCA production (b) Graft rejection (c) T-cell recognition (d) All
8. Cytotoxic reaction occurs by the following ways.
(a) Phagocytosis (b) Lysis (c) killing (d) All
9. Transfer of tissues between individuals of different species is .
(a) Autograft (b) Syngraft (c) Xenograft (d) Allograft
10. Disease caused due to the damage of adrenal cortex is.
(a) Thrombocytopenia (b) Grave's disease (c) Addison's disease (d) Hashimoto's disease

Part-B

(5×4=20)

Answer the following

Answer should not exceed 200 words or one page

11. a. Describe the difference between B and T cells.
(Or)
b. Describe the mechanism of innate immunity.
12. a. Enlist the essential of antigens.
(Or)
b. Describe the ELISA technique.
13. a. Explain the classical pathway of complement activation.
(Or)
b. Illustrate the structure of immunoglobulin.
14. a. Elucidate MHC genes and molecules.
(Or)
b. Write a brief account on cell mediated immunity.
15. a. Tabulate the immunization schedule for children.
(Or)
b. Analyze the immunological bases of graft rejection.

Part-C

(5×7=35)

Answer the following

Answer should not exceed 600 words or 3 pages

16. a. Depict Bone marrow as lymphoid organ.
(Or)
b. Write the characteristics of acquired immunity
17. a. Write a detailed account on the properties and functions of immunoglobulins.
(Or)
b. Demonstrate the immunofluorescence assay.
18. a. Explain the mechanism of activation of CD4 T-cell.
(Or)
b. Illustrate the humoral immunity with relevant sketch
19. a. Elucidate the alternate pathways of complement activations.
(Or)
b. Give a detailed account on immune deficiency diseases.
20. a. Write a essay on tumour Immunology
(Or)
b. Write a detailed account on the recent approaches to vaccine production.