# D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1 DEPARTMENT OF ZOOLOGY IMMUNOLOGY (15CZO6B)

SECTION-A (UNIT-I)

- 1. Lysozyme.
- 2. SALT(skin associated lymphoid tissues).
- 3. Innate immunity.
- 4. Sources of lysozyme.
- 5. Defensins.
- 6. Non- specific immunity.
- 7. HMI&CMI&AMI.
- 8. Physical factors of innate immunity.
- 9. Phagocytosis.
- 10. Chemotaxis.
- 11. Inflammation.
- 12. Specific immunity.
- 13. Passive immunity.
- 14. Active immunity.
- 15. Immunological memory.

## UNIT-II

- 1. Hassel's corpuscles.
- 2. Thymectomy.
- 3. DiGeorge syndrome.
- 4. Bursa of fabricius.
- 5. Lymphnodes.
- 6. Lymph.
- 7. Trabeculum.
- 8. Marginal zone.
- 9. MALT.
- 10. BALT.

- 11. CALT.
- 12. Tonsils.
- 13. Peyer's patches.
- 14. NALT.
- 15. 'M'- cells.
- 16. Waldeyer's ring.
- 17. Appendix.
- 18. Thymocytes.
- 19. Germinal center.

## UNIT-III

- 1. Myeloid cells.
- 2. Lymphoid cells.
- 3. Pluripotency.
- 4. Megakaryocyte.
- 5. Macrophages.
- 6. NK cells.
- 7. Accessary cells.
- 8. Monocytes.
- 9. Dendritic cells.
- 10. Kupffer cells.
- 11. Osteoclast.
- 12. Langerhan's cells.
- 13. Antigen presenting cells.
- 14. Cluster of differentiation.
- 15. PMN.
- 16. Extravasation.
- 17. Effector and regulator T-cells.
- 18. Helper cells.
- 19. CD-Markers.
- 20. Class switch.
- 21. Plasma cells.
- 22. Mast cells.
- 23. Histiocytes.

24. Thymopoitein.

25. Memory cells.

## UNIT-IV

- 1. Immunoglobulin.
- 2. Papain and Pepsin.
- 3. Fab dimer.
- 4. Fragments of FC.
- 5. H-chain and L-chain.
- 6. Domains.
- 7. Sources of IgA.
- 8. J-chain.
- 9. Pentameric Ig.
- 10. Opsonization.
- 11. X-linked A gamma globulemia.
- 12. Hypervariable region.
- 13. Hinged region.
- 14. Monoclonal.
- 15. Polyclonal.
- 16. PEG.
- 17. HGPRT.
- 18. HAT Medium.
- 19. Hybridoma cell.
- 20. Hybridoma technology.
- 21. Two applications of Hybridoma technology.
- 22. Advantages of Hybridoma technology.
- 23. Affinity & Avidity of Antigen & Antibody reactions.
- 24. Serological reaction.
- 25. What is Precipitation reaction.
- 26. Cross reactivity.
- 27. Zone Phenomenon.

- 28. Antibody Specificity.
- 29. RIA.
- 30. ELISA.

## **UNIT-V**

- 1. Immunization.
- 2. Vaccination.
- 3. BCG.
- 4. DTP.
- 5. Tetanus.
- 6. Transplantation.
- 7. Hypersensitivity.
- 8. Anaphylaxis.
- 9. Prophylaxis.
- 10. Immediate type of Allergy.
- 11. Suppressor cells.
- 12. Cytotoxic reaction.
- 13. Hay fever allergic rhinitis.
- 14. RAST.
- 15. Penicillin.
- 16. Massive inflammation.
- 17. Good Pasteur's syndrome.
- 18. MAC lysis.
- 19. Serum sickness.
- 20. Arthur's reaction.
- 21. Rheumatic Arthratis.
- 22. Glomerular necrosis.
- 23. Patch test.
- 24. Grave's disease.
- 25. Killed Vaccines.
- 26. Live Vaccines.
- 27. MMR Vaccine.
- 28. Good Vaccine.

- 29. Adjuvants.
- 30. EPI.
- 31. RHOGAM.
- 32. Louis Pasteur.
- 33. Edward Jenner.
- 34. Toxoids.
- 35. Syngenic.
- 36. Allogenic.
- 37. HLA.
- 38. MHC.
- 39. H-Gene.
- 40. H-Antigen.
- 41. Acquired rejection.
- 42. Chromic rejection.
- 43. Graft rejection.
- 44. RAST.
- 45. RFLT.
- 46. GVHD.

#### SECTION-B (UNIT-1)

- 1. Explain the mechanism of phagocytosis.
- 2. Explain about the HMI&CMI with reference parasite infection.
- 3. What are the differences between innate & active immunity?
- 4. What are the physiological barriers of innate immunity?

## UNIT-II

- 1. Structure of Thymus.
- 2. Structure of Bone marrow.
- 3. Write a note on Bursa of fabricius.
- 4. Structure of Lymphnode.
- 5. Structure of Spleen.
- 6. Write a short note on MALT.

## UNIT-III

- 1. Write a short note on the origin of immunocomputent cell.
- 2. Write a short note structure and functions of Macrophages.
- 3. What are the different types of the dendritic cells?

#### UNIT- IV

- 1. Structure of Immunoglobulin.
- 2. Physiochemical and biological properties of Immunoglobulin.
- 3. Give an account on Immunodeficiency diseases.
- Explain about the Biosynthesis of antibody (or) Monoclonal and Polyclonal antibodies.
- 5. Explain about the Antigen and Antibody reactions.
- 6. Explain about the process of Hybridoma Technology.
- 7. Explain about the Hybridoma Techniques.
- 8. What are the general features of Antigen and Antibody reactions?
- 9. What are the stages of Antigen and Antibody reactions?

## UNIT-V

- 1. Characteristics features of Good Vaccines.
- 2. Advantages and Disadvantages of Killed Vaccines.
- 3. Write short note on Live Vaccines.
- 4. Immunization schedule of Children.
- 5. Immunization schedule of Adult.

#### SECTION-C (UNIT-I)

1. Explain the different types of immunity.

#### UNIT-II

- 1. What are the Primary Lymphoid Organs and explain their structure and functions?
- 2. What are the Secondary Lymphoid Organs and explain their Structure and functions?

## UNIT-III

1. Explain the various types of immune cells and their role in immune response.

## UNIT-IV

 Write in detail about the structure, types and functions of Immunoglobulin.Causes, Prevention, treatment and Symptoms of AIDS.

## UNIT-V

- 1. Give an account on Different types of Vaccination and their properties.
- Write in detail on the mechanism and different types of Hypersensitivity.
- 3. Write an account on Transplantation Immunology.