

**KALVIAMUTHU'S**  
**BIOLOGY - SPECIAL INTERIOR (5MARKS)**

Class: X STD

Subject: SCIENCE

**Chapter 2 - IMMUNE SYSTEM**

1. Define: Health and explain its(3 types)Dimensions of Health
2. Define : Disease and the Causes of the diseases
3. Explain any two Non-communicable diseases
4. Tabulate some diseases caused by vitamin deficiency
5. Explain Symptoms, Transmission, Control and prevention of Viral diseases (Common Cold)
6. Explain Symptoms, Transmission, Causative agent , Control and prevention of Viral diseases ( Influenza )
7. Explain Symptoms, Transmission, Causative agent ,Control and prevention of Bacterial diseases (Tuberculosis)
8. Explain Symptoms, Transmission, Causative agent ,Control and prevention of Bacterial diseases (Typhoid)
9. Explain Symptoms, Transmission, Causative agent ,Control and prevention of Protozoan diseases (malaria)
10. Explain Symptoms, Transmission, Causative agent ,Control and prevention of Protozoan diseases[ Amoebic dysentery(Amoebiasis)]
11. Explain the Life cycle of malarial parasite – Plasmodium
12. Explain Symptoms, Transmission, Causative agent ,Control and prevention of Fungal diseases in man(Ringworm)
13. What is called transmission of the disease? Explain 2 types of transmissions of disease.
14. Define immunity and explain the types of Immunity
15. Define immunization and write the FLOW CHART of types of Immunity
16. Tabulate the immunization schedule followed in INDIA
17. Explain about Medical Management
18. Expand- AIDS,HIV and explain symptoms,tests,prevention of HIV
19. What kind of Immunity does a child get when it is breast fed ?- Explain
20. Write the symptoms of T.B in skin, lungs and in central nervous system

Chapter 3**STRUCTURE AND FUNCTIONS  
OF HUMAN BODY-ORGAN  
SYSTEMS**

1. Draw Structure of a Neuron and explain about NERVOUSSYSTEM
2. Explain about Nerve cells
3. Describe about types of nerve cell
4. Explain about Forebrain ( about Cerebrum, Cerebral cortex)
5. Explain about Cerebral cortex (3 areas)
6. Explain the terms MENINGES, Thalamus and Hypothalamus
7. Explain about midbrain and the hindbrain
8. Explain about the Spinal Cord
9. Describe about (PNS) and (ANS)
10. The endocrine system of a HUMAN – EXPLAIN
11. Draw and explain about Pituitary Gland.
12. Tabulate Hormones of Adenohypophysis with functions.
13. Tabulate Hormones of Neurohypophysis with functions.
14. Explain Thyroid Gland a) Dorsal view b) Ventral view & Functions of thyroxine with a neat diagrams.
15. Explain about Thyroid Disorders
16. Describe about the Islets of Langerhans with a neat diagram.
17. Describe about Adrenal Gland (Supra renal gland) , Adrenal medulla with a neat diagrams
18. Explain about Testes and Ovaries
19. Explain the following Glands Parathyroid , Thymus and Pineal
20. Describe meiosis with various stages (diagrams) & its significance .

Chapter 4**REPRODUCTION IN  
PLANTS**

1. Draw the diagrams related to Pollination and fertilization(p.no-56).
2. Explain Modes of reproduction in Multi cellular organisms
3. Explain some of the spores in different algae and fungi
4. Explain Parts of a typical flower with a neat diagram.
5. Define self Pollination (Autogamy) with advantages,disadvantages

6. Define Cross Pollination (Allogamy) with advantages, disadvantages
7. Explain the terms Entomophily, Anemophily and Hydrophily
8. Describe about Germination of pollen grain with a neat diagram.
9. Describe the Process of fertilization with a neat diagram
10. Draw the flow chart for Classification of Fruits
11. Describe about Simple fruits
12. Describe about Simple dry fruits
13. Describe about Schizocarpic fruits
14. Describe about Aggregate Fruit and Composite or Multiple fruit
15. Describe about Structure of a dicot seed (bean) with diagram
16. Describe about Structure of monocot seed (paddy) with diagram
17. Explain the Agents for the Dispersal of Fruits and Seeds (any 3)
18. Describe about Autochory and Anemochory
19. Describe about Hydrochory and Zoochory
20. Tabulate Some of the methods of reproduction in organisms (3 marks); what is called binary fission? (2 marks)

## Chapter 7

## CONSERVATION OF ENVIRONMENT

1. Explain Interaction between non-living and living components in the biosphere with diagram (**Ans; From...** Environmental science can be..... **To**.... called pollutant. **e.g.** sulphur-dioxide)
2. Explain the methods are adopted for the disposal of harmful waste materials.
3. Explain the Reuse and Recycling Technique (p.no-118)

4. Describe about WATER MANAGEMENT.
5. Describe about Fresh Water Management
6. Describe about Rain Water Harvesting
7. Tabulate some Important Sanctuaries in Tamilnadu with name, Location and Animals
8. Tabulate some Important National Parks, Wildlife Sanctuaries and reserves
9. Describe the major components in an Ecosystem
10. How is the Eco-system Maintained?
11. Describe about Bio - Geo Chemical Cycles
12. Describe about coal and petroleum
13. Explain the Environmental effects of coal burning
14. Explain how petroleum was formed?
15. Explain the Environmental Effects in Petroleum Industry and Alternatives to Petroleum – based Vehicle Fuels
16. Define: Green Chemistry & The Principles of Green Chemistry
17. Describe the Products & Future Products Produced by the Process Of Green Chemistry
18. Explain about Global Village & Global electronic village
19. Explain about Food Chain and Food Web
20. Explain the classification of wastes & balance in eco-system

**PREPARED FOR THE BETTERMENT OF ALL CHILDREN**

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