SCIENCE

Book Preferred - N.C.E.R.T and living science for Physics,	, Chemistry and Biology (Published by Ratna
Sagar)	

Unit 7	Test	-1	
Physi	cs		- (

Ch-10 Light Reflection and Refraction
Ch-1 Chemical Reaction and Equation

Chemistry Biology

Ch-6 Life Processes

Unit Test -2

Physics Ch-12 Electricity

Chemistry Ch-2 Acids, bases and salts
Biology Ch-7 Control and coordination

HALF YEARLY TERM

Physics Ch-10 Light Reflection and Refraction

Ch-12 Electricity

Ch-11 Human Eye and Colourful world

Chemistry Ch-1 Chemical Reaction and Equations

Ch-2 Acids, Bases and Salts
Ch-3 Metals and Non Metals

Biology Ch-6 Life Processes

Ch-7 Control and Coordination

Ch-8 How do Organisms Reproduce

Practicals.

Physics 1. Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between V and I

- 2. Determination of the equivalent resistance of two resistors when connected in series and parallel.
- 3. Determination of the focal length of
 - i. Concave mirror ii. Convex lens by obtaining the image of a distant object.
- 4. Finding the image distance for varying object distances in case of a convex lens and drawing corresponding ray diagrams to show the nature of image formed.
- Biology 1. Preparing a temporary mount of a leaf peel to show stomata.
 - 2. Experimentally show that carbon dioxide is given out during respiration.

Chemistry 1. A. Finding the pH of the following samples by using pH paper / universal indicator.

i. Dilute Hydrocholoric acid

ii. Dilute NaOH solution

iii. Dilute Ethanoic Acid solution

iv. Lemon Juice

v. Water

iii.

- vi. Dilute Hydrogen Carbonate solution
- B. Studying the properties of acids and bases (NCI and NAOH) on the basis of their reaction with: Unit -I
- i. Litmus solution (Blue / Red)

ii. Zinc metal

iii. Solid sodium carbonate

2. Performing and observing the following reactions and classifying them into

A. Combination reaction

B. Decomposition reaction

C. Displacement reaction

- D. Double displacement reaction
- i. Action of water on quicklime
- ii. Actio of heat on ferrous sulphate crystals

Iron nails kept in copper sulphate solution

iv. Reaction between sodium sulphate and barium chloride solutions.

3. Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions. FeSO₄ (aq) ZnSO₄ (aq) CuSO₄ (aq) $Al_{3} (SO_{4})_{3} (aq)$ iv. Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result. 4. Study of the following properties of acetic acid (ethanoic acid): Unit - I Odour i. ii. Solubility in water iii. Effect on litmus iv. reaction with sodium Hydrogen carbonate. Unit Test -3 Ch-13 Magnetic Effect of Electric Current **Physics** Ch-4 Carbon and Its Compounds Chemistry Heredity and Evolution Biology Ch-9 **ANNUAL TERM** Ch-1 Chemical reactions and equations Chemistry Ch-2 Acids, Bases and Salts Ch-3 Metals and Non Metals Ch-4 Carbon and Its Compounds Periodic classification of Elements Ch-5 Bioloty Ch-6 Life Processes Ch-7 Control and Coordination Ch-8 How do Organisms Reproduce Ch-9 Heredity and Evolution Ch-15 Our Environment Ch-16 Sustainable Management of natural Resources **Physics** Ch-10 Light Ch-11 Human Eye and its colourful world Ch-12 Electricity Ch-13 Magnetic Effect of Electric Current Ch-14 Sources of Energy **Practicals** Tracing the path of a ray of light passing through a rectangular glass slab for different Physics:1. angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interprete the result. 2. Tracing the path of the rays of light through a glass prism 1. Studying (a) Binary fission in Amoeba, and (b) budding in yeast and Hydra with the help of prepared slides. 2. Identification of the different parts of an embryo of a dicot seed (Pea, gram or red kidney bean) Chemistry. 1. Study of the comparative capacity of a sample of soap in soft and hard water Note: 1. Both annual and half yearly activities along with whole syllabus will come in annual examination Prepare question / answer from Reference book also. 2. 3. In modal test whole syllabus will come.