

Access Free Physics Lab
Manual For Ncert Class Xii Ilcuk

Physics Lab Manual For Ncert Class Xii Ilcuk

An Excellent Book in
Accordance with the latest

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syllabus for Class-11
Prescribed by CBSE/NCERT
and Adopted by Various
State Education Boards.

(A) Basic Laboratory
Techniques – 1. To cut a
glass tube or glass rod,

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2. To bend the glass rod at an angle, 3. To draw a glass jet from a glass tube, 4. To bore a cork and fit a glass tube into it. (B) Characterisation and Purification of

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Chemical Substances- 1. To determine the melting point of the given unknown organic compound and its identification (simple laboratory technique), 2. To determine the boiling

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point of a given liquid
when available in small
quantity (simple
laboratory method), 3. To
prepare crystals of pure
potash alum
[K₂S₀4.A1₂(S₀4)₃.24H₂O]

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from the given impure sample, 4. To prepare the pure crystals of copper sulphate from the given crude sample, 5. To prepare pure crystals of benzoic acid from a given

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impure sample. (C)

Measurement of pH Values

1. To determine the pH value of vegetable juices, fruit juices, tap water and washing soda by using universal pH paper, 2. To

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determine and compare the pH values of solutions of strong acid (HCl) and weak acid (CH₃COOH) of same concentration, 3. To study the pH change in the titration of strong base

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Vs. strong acid by using universal indicator paper, 4. To study the pH change by common ion (CH_3COO^- ion) in case of weak acid (CH_3COOH), 5. To determine the change in pH value of

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weak base (NH_4OH) in presence of a common ion (NH_4^+), (D) Chemical Equilibrium 1. To study the shift in equilibrium between ferric ions and thiocyanate ions by

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changing the concentrations of either of the ions, 2. To study the shift in equilibrium between $[\text{Co}(\text{H}_2\text{O})_6]^{2+}$ and Cl^- ions by changing the concentrations of either

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of the ions, (E)
Quantitative Analysis 1.
To prepare M/10 oxalic
acid solution by direct
weighing method, 2.To
prepare M/10 solution of
sodium carbonate by direct

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weighing method, 3.To determine the strength of given solution of sodium hydroxide by titrating it against N/10 or M/20 solution of oxalic acid, 4.To determine the

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strength of a given solution of hydrochloric acid by titrating it against a standard N/10 or M/20 sodium carbonate solution, (F) Qualitative Analysis 1. Analysis of

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Anions, 2. Analysis of
Cations (G) Detection of
Elements in Organic
Compounds 1.To detect the
presence of nitrogen,
sulphur and halogens in a
given organic compound by

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Lassaigne's test, 2. To detect the presence of nitrogen, sulphur and halogens in the given organic compound sample number by Lassaigne's test

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INVESTIGATORY PROJECTS (A)

Checking of Bacterial Contamination in Water

1.To check the bacterial
contamination in drinking
water by testing sulphide
ions (B) Methods of Water

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Purification 1.To purify water from suspended impurities by using sedimentation, 2. To purify water by boiling, 3.To purify water by distillation method, 4.To

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purify water by reverse osmosis technique. 5.To purify water by GAC method, 6.To purify water by bleach treatment, 7.To purify water by oxidising agent, 8.To purify water

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by ozone treatment method.

(C) Water Analysis 1. To test the hardness of different water samples.

(D) Foaming Capacity of Various Soaps 1. To compare the foaming capacity of

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different washing soaps,
2.To study the effect of
addition of sodium
carbonate on foaming
capacity of washing soap
(E) Tea Analysis 1. To
study the acidity of

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different samples of tea leaves (tea) by using pH paper (F) Analysis of Fruits and Vegetable Juices 1. To analyse the fruit and vegetable juices for the constituent

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present in them (G) Rate
of Evaporation 1. To study
the rate of evaporation of
different liquids (H)
Effect of Acids and Bases
on Tensile Strength of
Fibres 1.To compare the

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tensile strength of natural fibres and synthetic fibres, 2.To study the effect of acids and bases on tensile strength of different fibres. Log & Antilog

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Table

In accordance to the new syllabus of Central Board of Secondary Education(CBSE), New Delhi and other State Boards following CBSE Curriculum.

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Young Ramchand rushes through the dusty streets of Amritsar, once again late for work. Chastised by his boss, he takes his place among the cottons and silks of the sari

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shop, selling yards of cloth to the wealthy and fashionable women of the town. Offered a glimpse of a more opulent world, Ramchand is seduced by the idea that he might somehow

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better himself. But making dreams real will come at a price that a poor shop assistant might not be able to pay ... Funny, compelling and unflinchingly honest, The

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Sari Shop is a heartbreaking story of a young man's struggle to be someone else and a brilliantly clear-sighted debut.

Core Science Lab Manual

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with Practical Skills for
Class X

Everything You Wanted to
Know about the Science of
Raising Children but Were
Too Exhausted to Ask

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Study Material Based on
NCERT English Class- XII
Comprehensive Chemistry

With the NEP 2020 and expansion of research and knowledge has changed the face of education to a great extent. In the Modern times, education is not just constricted top the lecture method

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but also includes a practical knowledge of certain subjects. This way of education helps a student to grasp the basic concepts and principles. Thus, trying to break the stereotype that subjects like Mathematics, and Science means studying lengthy formulas, complex structures, and handling

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complicated instruments, we are trying to make education easy, fun, and enjoyable.

Lab Manual-Physics-TB-12_E-R

Lakhmir Singh's Science is a series of books which conforms to the NCERT syllabus. The main aim of writing this series is to help students understand

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difficult scientific concepts in a simple manner in easy language. The ebook version does not contain CD.

Lab Manual Social Science Class 10
Lakhmir Singh's Science for Class 6
Comprehensive Practical Chemistry
XII

Practical/Laboratory Manual Physics

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Class - XII -by Er. Meera Goyal (SBPD
Publications)

Practical/Laboratory Manual

Chemistry Class XII based on NCERT
guidelines by Dr. S. C. Rastogi, Er.
Meera Goyal

**1. Chapter-wise presentation for
systematic and methodical study**

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2. Strictly based on the latest CBSE Curriculum and National Curriculum Framework. 3. All Questions from the Latest NCERT Textbook are included. 4. Previous Years' Question Papers from Kendriya Vidhyalaya Sangathan are included. 5. Latest

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Typologies of Questions developed by Oswaal Editorial Board included. 6. Mind Maps in each chapter for making learning simple. 7. 'Most likely Questions' generated by Oswaal Editorial Board with 100+ years of teaching experience.

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Paper Class 12 English Core,
Physics, Chemistry &
Mathematics 2022 Includes 15
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Self-Assessment Papers for Term
2 Board Exams March-April 2022
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Chemistry & Mathematics 2022
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Questions as specified in the
latest CBSE Board Sample Paper
for Term 2 Board Exams Released
on 14th January 2022 These CBSE
Term 2 Books Class 12 English**

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Mathematics 2022 Comprise On-
Tips Notes & Revision Notes for
Quick Revision Oswaal CBSE
Term 2 Sample Papers Class 12
English Core, Physics, Chemistry
& Mathematics 2022 Include
Mind Maps For Better Learning**

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**These CBSE Term 2 Sample
Papers Class 12 English Core,
Physics, Chemistry &
Mathematics 2022 | CBSE Term 2
Books Class 12 English Core,
Physics, Chemistry &
Mathematics 2022 Help to
Prepare Better for Term 2 Board**

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**Exams 2022 Get Free E-
Assessments of Oswaal360 based
on the latest Typologies of
Questions as per CBSE Term-II
syllabus**

Lab Manual

**Biology Lab Manual Class XII | As
per the latest CBSE syllabus and**

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**other State Board following the
curriculum of CBSE.**

Academic Practical Science X

**जीव विज्ञान (Jeev Vigyan -
Biology) Class XI (Based on
NCERT)**

**Oswaal CBSE Question Bank Class
12 English, Physics, Chemistry &**

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**Mathematics (Set of 4 Books)
(For 2022-23 Exam)**

**Physics Lab Manual Class XI |
According to the latest CBSE
syllabus and other State Boards
following the CBSE curriculum**

EXPERIMENTS 1.Measurement of
Length 1.To measure the diameter of a

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small spherical/cylindrical body by using a vernier callipers, 2. To measure the dimensions of a given regular body of known mass, using vernier callipers and hence find its density, 3. To measure the internal diameter and depth of a given cylindrical vessel (say

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calorimeter/beaker) by using vernier callipers and hence find its internal volume (i.e., capacity) Viva-voce 2. Screw Gauge/Micrometer 4. To determine the diameter of a given wire using a screw gauge and find its volume, 5. To find the thickness of a

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given sheet with the help of screw gauge, 6.To measure the volume of an irregular lamina by using a screw gauge Viva-voce 3. Spherometer 7.To measure the radius of curvature of a given spherical surface (convex lens) by using a spherometer Viva-voce

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4. Mass and Weight 8. To determine the mass of two different objects using a beam balance Viva-voce

5. Parallelogram Law of Vectors 9. To find the weight of a given body using parallelogram law of vectors Viva-voce

6. Simple Pendulum (Measurement of

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Time) 10. Using a simple pendulum, plot $L \propto T$ and $L \propto T^2$ graphs. Hence find the effective length of a second's pendulum, using appropriate graphs
Viva-voce 7. Friction 11. To study the relationship between force of limiting friction and normal reaction and to find

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the coefficient of friction between a block and a horizontal surface, Viva-voce 8. Motion of a Body Along an Inclined Plane 12. To find the downward force along an inclined plane, acting on a roller due to gravitational pull of the earth and study

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its relationship with the angle of inclination by plotting graph between force and \sin Viva-voce SECTION : B
EXPERIMENTS 1.Elasticity 1.To determine the Young's modulus of elasticity of the material of the wire, using Searle's apparatus Viva-voce

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2.Spring Constant 2.To find the spring constant of a helical spring by plotting load-extension graph Viva-voce 3.

Boyle's Gas Law 3.To study the variation in volume with pressure for a sample of air constant temperature by plotting graphs between P and V and

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between P and $1/V$ 18 Viva-voce 4.
Surface Tension 4.To determine the
surface tension of water by capillary
rise method Viva-voce 5.Viscosity
5.To determine the co-effective of
viscosity of given liquid by measuring
the terminal velocity of a given

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spherical body in it Viva-voce

6. Newton's Law of Cooling 6. To study the relationship between temperature of a hot body and time by plotting a cooling curve Viva-voce 7. Vibrations of Strings 7. To study the relation between frequency and length for a

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given wire under constant tension using a sonometer Viva-voce 8.To study the relation between the length of a given wire and tension for constant frequency using sonometer Viva-voce

8.Vibrations of Air Columns 9.To find the velocity of sound in air at room

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temperature using a resonance tube by
two resonance position Viva-voce
9. Specific Heat 10. To determine
specific heat of a given solid by the
method of mixture 11. To determine the
specific heat of a given liquid by
method of mixture Viva-voce

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SECTION : A ACTIVITIES

- 1.To make a paper scale of given least count e.g., 0.2 cm, 0.5 cm and use it to measure the length of a given object.
- 2.To determine the mass of a given body using a metre scale and by applying principle of moments. Viva-

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voce 3.To plot a graph for a given set of data using proper choice of scales and error bars. Viva-voce 4.To measure the force of limiting friction for rolling of a roller on horizontal plane. Viva-voce 5.To study the variation in the range of a jet of water with angle of

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projection. Viva-voce 6. To study the conservation of energy of a ball rolling down on inclined plane (using a double inclined plane). Viva-voce 7. To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time. Viva-

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voce SECTION : B ACTIVITIES 1.To observe the change of the state and plot a cooling curve for molten wax. Viva-voce 2.To observe and explain the effect of heating on a bimetallic strip. Viva-voce 3.To note the change in level of liquid in a container on heating

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and interpret the observations. Viva-voce 4.To study the effect of detergent in surface tension by observing capillary rise. Viva-voce 5.To study the factors affecting the rate of loss of heat of a liquid. Viva-voce 6.To study the effect of load on depression of a

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suitably clamped meter scale loaded (i) at its end (ii) in the middle. Viva-voce
7. To observe the decrease in pressure with the increase in velocity of the fluid. Viva-voce
APPENDIX Some Important Tables of Physical Constants
Log-Antilog and other Tables

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An award-winning scientist offers his unorthodox approach to childrearing: "Parentology is brilliant, jaw-droppingly funny, and full of wisdom—bound to change your thinking about parenting and its conventions" (Amy Chua, author of *Battle Hymn of*

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the Tiger Mother). If you're like many parents, you might ask family and friends for advice when faced with important choices about how to raise your kids. You might turn to parenting books or simply rely on timeworn religious or cultural traditions. But

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when Dalton Conley, a dual-doctorate scientist and full-blown nerd, needed childrearing advice, he turned to scientific research to make the big decisions. In Parentology, Conley hilariously reports the results of those experiments, from bribing his kids to

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do math (since studies show conditional cash transfers improved educational and health outcomes for kids) to teaching them impulse control by giving them weird names (because evidence shows kids with unique names learn not to react when their

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peers tease them) to getting a vasectomy (because fewer kids in a family mean smarter kids). Conley encourages parents to draw on the latest data to rear children, if only because that level of engagement with kids will produce solid and happy ones.

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Ultimately these experiments are very loving, and the outcomes are redemptive—even when Conley's sassy kids show him the limits of his profession. Parentology teaches you everything you need to know about the latest literature on parenting—with

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lessons that go down easy. You'll be laughing and learning at the same time. Oswaal CBSE Question Bank Class 12 Physics, Chemistry & Mathematics 2022-23 are based on latest & full syllabus The CBSE Question Bank Class 12 Physics, Chemistry &

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Mathematics 2022-23 Includes Term 1
Exam paper 2021+Term II CBSE
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Question Bank Class 12 Physics,

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questions (2013-2021) It includes
CBSE Marking Scheme Answers:
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scheme answers (2013-2020) The

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sheets Exam Oriented Prep Tools
Commonly Made Errors & Answering
Tips to avoid errors and score
improvement Mind Maps for quick
learning Concept Videos for blended
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Academically Important (AI) look out
for highly expected questions for the
upcoming exams

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Lab Manual Latest Edition

Mathematics Enrichment Lab

Activities 10

Comprehensive Practical Physics XII

**A. Surface Chemistry 1. To
prepare colloidal solution (sol) of
starch, 2. To prepare a colloidal**

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**solution of egg albumin 3. To
prepare colloidal solution of gum,
4. To prepare colloidal solution of
aluminium hydroxide $[\text{Al}(\text{OH})_3]$,
5. To prepare colloidal solution of
ferric hydroxide $[\text{Fe}(\text{OH})_3]$, 6. To
prepare colloidal solution of
arsenious sulphide $[\text{As}_2\text{S}_3]$, 7. To**

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purify a freshly prepared sol by dialysis, 8. To compare the effectiveness of different common oils (Castor oil, cotton seed oil, coconut oil, kerosene oil, mustard oil) in forming emulsions. Viva-Voce B. Chemical Kinetics 1. To study the effect of

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concentration on the rate of reaction between sodium thiosulphate and hydrochloric acid, 2. To study the effect of temperature on the rate of reaction between sodium thiosulphate and hydrochloric acid, 3. To study the rate of

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reaction of iodide ions with hydrogen peroxide at different concentrations of iodide ions, 4. To study the rate of reaction between potassium iodate (KIO_3) and sodium sulphite (Na_2SO_3) using starch solution as indicatorl Viva-Voce C.

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Thermochemistry 1. Determine the enthalpy of dis solution of copper sulphate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$) in water at Room temperature, 2. To determine the enthalpy of neutralization of the reaction between HCl and NaOH , 3. To determine enthalpy change

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during the interaction between acetone and chloroform Viva-Voce D. Electrochemistry 1. To study the variation of cell potential in $Zn|Zn^{2+}||Cu^{2+}|Cu$, with change in concentration of electrolytes ($CuSO_4$ or $ZnSO_4$) at room temperature Viva-Voce

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E.Chromatography 1.To separate the coloured components (pigment) present in the given extract of leaves and flowers by ascending paper chromatography and find their Rf values, 2. To separate the coloured components present in the

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mixture of red and blue inks by ascending paper chromatography and find their Rf values, 3.To separate Co^{2+} and Ni^{2+} ions present in the given mixture by using ascending paper chromatography and determine their Rf values Viva-Voce F.

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**Preparation of Inorganic
Compounds**

- 1. Preparation of double salt of ferrous ammonium sulphate (Mohr's salt) from ferrous sulphate and ammonium sulphate,**
- 2. To prepare a pure sample of potash alum (fitkari),**
- 3. Preparation of crystals of**

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**potassium ferric oxalate or
pottasium trioxlato ferrate (III)**

**Viva-Voce G. Preparation of
Organic Compounds 1.**

**Preparation of iodoform from
ethyl alcohol or acetone, 2.**

**Preparation of acetanilide in
laboratory, 3. Preparation of b-**

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Naphthol aniline dye, 4. To prepare a pure sample of dibenzalacetone, 5. To prepare a pure sample of p-nitro acetanilide
Viva-Voce H. Tests for the Functional Groups Present in Organic Compounds Viva-Voce I. Study of Carbohydrates, Fats and

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Proteins 1. To study simple reactions of carbohydrate, 2. To study simple reactions of fats, 3. To study simple reactions of proteins, 4. To investigate presence of carbohydrates, fats and proteins in food stuffs Viva-Voce J. Volumetric Analysis 1. To

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prepare 250 ml of M/10 solution of oxalic acid, 2. To prepare 250 ml of M/10 solution of ferrous ammonium sulphate, 3. Prepare M/20 solution of oxalic acid, with its help find out the molarity and strength of the given solution of potassium permanganate,

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**4. Prepare M/20 solution of
Mohr's salt, using this solution
determine the molarity and
strength of potassium
permanganate solution Viva-Voce
K. Qualitative Analysis Viva-Voce
INVESTIGATORY PROJECTS 1. To
study the presence of oxalate ions**

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in guava fruit at different stages of ripening. 2. To study the quantity of caseine present in different samples of milk.

3. Preparation of soyabean milk and its comparison with natural milk with respect to curd formation, effect of temperature

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etc.4.To study the effect of potassium bisulphite as food preservative at various concentrations. 5. To study the digestion of starch by salivary amylase and the effect of pH and temperature on it. 6. To study and compare the rate of

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fermentation of the following materials—wheat flour, gram flour, potato juice and carrot juice. 7.To extract essential oils present in saunf (aniseed), ajwain (corum), illaichi (cardomom).8. To detect the presence of adulteration in fat, oil and butter,

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**9.To investigate the presence of
NO₂- in brinjal.**

**An Excellent Book in Accordance
with the latest syllabus for
Class-11 Prescribed by
CBSE/NCERT and Adopted by
Various State Education Boards
Introduction : (1. Necessary**

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equipments, chemicals and other things for practical work, 2. General Instructions for practical work, 3. Special Instructions for practical note-book, Drawing and Recording, 4. Special Instructions for spotting.) EXPERIMENTS 1. To study and describe the

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flowering plant belonging to family (one from each of the families) (a) Solanaceae(b)Fabaceae(c)Liliaceae. 2.To prepare temporary slide of transverse section of dicot/monocot stem/dicot/ monocot root. 3. To study osmosis by potato-

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osmometer. 4. To study of plasmolysis in epidermal peel of Tradescantial or Rhoeo leaf. 5. To study the distribution of stomata on the upper and lower surface of a leaf. 6.To compare the rate of transpiration in upper and lower surface of the leaf. 7. To test the

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presence of sugars (Glucose, Sucrose and Starch), proteins and fats and to detect their presence in suitable plant and animal materials. 8. To study the separation of plant pigments by paper chromatography. 9. To study the rate of respiration in

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flower buds/leaf tissue and germinating seeds. 10A.To test presence of urea in urine. 10B. To test presence of sugar in urine. 10C. To detect presence of albumin in urine. 10D.To test urine for presence of bile salt.
SPOTTING 1. Study of compound

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microscope. 2. To study the plant specimen and identification with reasons : Bacteria, Oscillatoria, Spirogyra, Rhizopus, Mushroom, Yeast, Liverwort, Moss, Fern, Pine, One Monocotyledonous plant, One dicotyledonous plant and one Lichen. 3. Study of

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**animal specimens 1. Amoeba 2.
Hydra 3. Fasciola Hepatica (Liver
fluke) 4. Ascaris Lumbricoides 5.
Hirudinaria Granulosa 6.
Pheretima Posthuma 7. Palaemon
8. Bombyx Mori 9. Apis Indica
(Honeybee) 10. Pila Globasa
(Snail) 11. Asterias (Starfish) 12.**

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Scoliodon (Dogfish/Shark)

13.Labeo Rohita (Rohu) 14. Rana

Tigrina (Frog) 15. Hemidactylus

(Lizard) 16. Columba Livia

(Pigeon) 17. Orytolagus

Cuniculus(Rabbit). 4A.To study

the plant tissues—Palisade cells,

Guard cells, Parenchyma,

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**Collenchyma, Sclerenchyma,
Xylem and Phloem through
prepared slide. 4B. To study the
animal tissue squamous
epithelium, muscles fibres
through prepared slide. 4C. To
study mammalian blood smear by
temporary/permanent slide. 5.**

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Study of mitosis in root tip of onion. 6. Study of different modification in root, stem and leaves. 7. To study and identify different types of inflorescence (Racemose and Cymose). 8. To study imbibition in seed/raisins. 9. To demonstrate that anaerobic

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respiration take place in the absence of air. 10. To study human skeleton and joints. 11. To study the external features of cockroach with help of model or chart

An important dictum of learning is that theoretical learning must

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always be supplemented by practical learning. This ensures proper understanding and comprehension besides better retention. It eliminates the phobia and makes learning fun. With this in mind the concept of activities in mathematics was

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introduced. This series of books caters to the above requirement. It is a sincere effort to sharpen the intellect through activity oriented learning to acquire mathematical skills and develop logical reasoning. The ebook version does not contain CD.

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**Comprehensive Chemistry XI
Practical/Laboratory Manual
Chemistry Class XI based on
NCERT guidelines by Dr. S. C.
Rastogi & Er. Meera Goyal
Laboratory Manual for
Mathematics - 8
Comprehensive Math Laboratory**

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**(Experiment & Workbook) IX
(Hindi Medium)**

**Practical/Laboratory Manual
Biology Class XI based on NCERT
guidelines by Dr. Sunita Bhagia &
Megha Bansal**

***1. This book deals with CBSE
New Pattern Physics for Class***

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11 2. It is divided into 8 chapters as per Term 1 Syllabus 3. Quick Revision Notes covering all the Topics of the chapter 4. Carries all types of Multiple Choice Questions (MCQs) 5. Detailed Explanation for all types of

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questions 6. 3 practice papers based on entire Term 1 Syllabus with OMR Sheet With the introduction of new exam pattern, CBSE has introduced 2 Term Examination Policy, where; Term 1 deals with MCQ based questions, while

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Term 2 Consists of Subjective Questions. Introducing, Arihant's "CBSE New Pattern Series", the first of its kind providing the complete emphasize on Multiple Choice Questions which are designated in TERM 1 of each

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subject from Class 9th to 12th. Serving as a new preparatory guide, here's presenting the all new edition of "CBSE New Pattern Physics for Class 11 Term 1" that is designed to cover all the Term I chapters as per rationalized

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***syllabus in a Complete &
Comprehensive form.***

***Focusing on the MCQs, this
book divided the first have
syllabus of Physics into 8
chapters giving the complete
coverage. Quick Revision
Notes are covering all the***

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Topics of the chapter. As per the prescribed pattern by the board, this book carries all types of Multiple Choice Questions (MCQs) including; Assertion - Reasoning Based MCQs and Cased MCQs for the overall preparation.

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Detailed Explanations of the selected questions help students to get the pattern and questions as well. Lastly, 3 Practice Questions are provided for the revision of the concepts. TOC Physical World, Units and

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***Measurement, Motion in a
Straight, Motion in a Plane,
Laws of Motion, Work, Energy
and Power, System of
Particles and Rotational
Motion, Gravitation, Practice
Papers (1-3).***

SECTION : A EXPERIMENTS

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1.Measurement of Length

1.To measure the diameter of a small spherical/cylindrical body by using a vernier callipers, 2. To measure the dimensions of a given regular body of known mass, using vernier callipers and hence

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find its density, 3. To measure the internal diameter and depth of a given cylindrical vessel (say calorimeter/beaker) by using vernier callipers and hence find its internal volume (i.e., capacity) Viva-voce 2. Screw

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Gauge/Micrometer 4.To determine the diameter of a given wire using a screw gauge and find its volume, 5. To find the thickness of a given sheet with the help of screw gauge, 6.To measure the volume of an irregular

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*lamina by using a screw gauge
Viva-voce 3. Spherometer 7.To
measure the radius of
curvature of a given spherical
surface (convex lens) by using
a spherometer Viva-voce
4.Mass and Weight 8.To
determine the mass of two*

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***different objects using a beam
balance Viva-voce***

***5.Parallelogram Law of
Vectors 9.To find the weight
of a given body using
parallelogram law of vectors
Viva-voce 6.Simple Pendulum
(Measurement of Time)***

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10. Using a simple pendulum, plot L-T and L-T² graphs. Hence find the effective length of a second's pendulum, using appropriate graphs Viva-voce

7. Friction

11. To study the relationship between force of limiting

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***friction and normal reaction
and to find the coefficient of
friction between a block and a
horizontal surface, Viva-voce
8. Motion of a Body Along an
Inclined Plane 12. To find the
downward force along an
inclined plane, acting on a***

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roller due to gravitational pull of the earth and study its relationship with the angle of inclination by plotting graph between force and sin Viva-voce SECTION : B

***EXPERIMENTS 1.Elasticity
1.To determine the Young's***

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modulus of elasticity of the material of the wire, using Searle's apparatus Viva-voce
2.Spring Constant 2.To find the spring constant of a helical spring by plotting load-extension graph Viva-voce 3. Boyle's Gas Law 3.To study

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the variation in volume with pressure for a sample of air constant temperature by plotting graphs between P and V and between P and $1/V$ 18 Viva-voce 4. Surface Tension 4.To determine the surface tension of water by capillary

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rise method Viva-voce

***5.Viscosity 5.To determine the
co-effective of viscosity of
given liquid by measuring the
terminal velocity of a given
spherical body in it Viva-voce***

6.Newton's Law of Cooling

6.To study the relationship

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between temperature of a hot body and time by plotting a cooling curve Viva-voce

7.Vibrations of Strings 7. To study the relation between frequency and length for a given wire under constant tension using a sonometer

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Viva-voce 8.To study the relation between the length of a given wire and tension for constant frequency using sonometer Viva-voce

8.Vibrations of Air Columns

9.To find the velocity of sound in air at room temperature

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*using a resonance tube by two
resonance position Viva-voce
9. Specific Heat 10. To
determine specific heat of a
given solid by the method of
mixture 11. To determine the
specific heat of a given liquid
by method of mixture Viva-*

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voce SECTION : A ACTIVITIES

1.To make a paper scale of given least count e.g., 0.2 cm, 0.5 cm and use it to measure the length of a given object.

2.To determine the mass of a given body using a metre scale and by applying

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principle of moments. Viva-voce 3.To plot a graph for a given set of data using proper choice of scales and error bars. Viva-voce 4.To measure the force of limiting friction for rolling of a roller on horizontal plane. Viva-voce

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- 5.To study the variation in the range of a jet of water with angle of projection. Viva-voce***
6.To study the conservation of energy of a ball rolling down on inclined plane (using a double inclined plane). Viva-voce
7. To study dissipation of

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***energy of a simple pendulum
by plotting a graph between
square of amplitude and time.***

Viva-voce SECTION : B

***ACTIVITIES 1.To observe the
change of the state and plot a
cooling curve for molten wax.***

Viva-voce 2.To observe and

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explain the effect of heating on a bimetallic strip. Viva-voce 3.To note the change in level of liquid in a container on heating and interpret the observations. Viva-voce 4.To study the effect of detergent in surface tension by

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observing capillary rise. Viva-voce 5.To study the factors affecting the rate of loss of heat of a liquid. Viva-voce 6.To study the effect of load on depression of a suitably clamped meter scale loaded (i) at itsend (ii) in the middle.

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Viva-voce 7.To observe the decrease in pressure with the increase in velocity of the fluid. Viva-voce APPENDIX Some Important Tables of Physical Constants Log-Antilog and other Tables These Lab Manuals provide

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complete information on all the experiments listed in the latest CBSE syllabus. The various objectives, materials required, procedures, inferences, etc., have been given in a step-by-step manner. Carefully framed

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MCQs and short answers type questions given at the end of the experiments help the students prepare for viva voce.

Parentology

***Comprehensive Laboratory
Manual in Biology XII***

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***Accountancy Class for 11
-CBSE - Examination
(2021-2022)***

Chemistry

Practical/Laboratory Manual

Physics Class XI based on

NCERT guidelines by Dr. J. P.

Goel & Er. Meera Goyal

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A text book on Chemistry

Part- A: Financial

Accounting-I 1.

Accounting: an

introduction 2. Theory

base of accounting,

accounting terminology 3.

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*Accounting equation 4.
Elements of double-entry
system 5. Book of original
entry: Journal 5A.
Accounting for Goods and
Services Tax 6. Book of
original entry: Cashbook*

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- 7. *Books of original entries: Subsidiary books*
- 8. *Ledger* 9. *Trial balance*
- 10. *Bank reconciliation statement* 11. *Depreciation*
- 12. *Reserves and provisions* 13. *Bills of*

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exchange 14. *Errors and
their rectification* 15.
*Presentation of final
Accounts* 16. *Financial
statements* 17. *Financial
statements with
adjustments part- B:*

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Financial Accounting-II

*18. Computers in
accounting 19. Accounting
information system 20.
Accounting and database
system Board Question
Papers (Solved) .*

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With the NEP 2020 and expansion of research and knowledge has changed the face of education to a great extent. In the Modern times, education is not just constricted top

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the lecture method but also includes a practical knowledge of certain subjects. This way of education helps a student to grasp the basic concepts and principles.

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*CBSE syllabus and other
State Board following the
curriculum of CBSE.*

Physics Lab Manual

Lab Manual Science Class

10

Lab. E- Manual Physics (For

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XIIth Practicals) A. Every student will perform 10 experiments (5 from each section) & 8 activities (4 from each section) during the academic year. Two demonstration experiments

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must be performed by the teacher with participation of students. The students will maintain a record of these demonstration experiments. B. Evaluation Scheme for Practical

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**Examination : One
experiment from any one
section 8 Marks Two
activities (one from each
section) (4 + 4) 8 Marks
Practical record
(experiments & activities) 6**

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***Marks Record of
demonstration experiments
& Viva based on these
experiments 3 Marks Viva
on experiments & activities
5 Marks Total 30 Marks
Section A Experiments 1. To***

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determine resistance per cm of a given wire by plotting a graph of potential difference versus current. 2. To find resistance of a given wire using metre bridge and

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hence determine the specific resistance of its material. 3. To verify the laws of combination (series/parallel) of resistances using a metre bridge. 4. To compare the

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emf of two given primary cells using potentiometer.

5. To determine the internal resistance of given primary cells using potentiometer. 6. To determine resistance of a

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galvanometer by half-deflection method and to find its figure of merit. 7. To convert the given galvanometer (of known resistance and figure of merit) into an ammeter and

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voltmeter of desired range and to verify the same. 8. To find the frequency of the a.c. mains with a sonometer. Activities 1. To measure the resistance and impedance of an inductor

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with or without iron core. 2. To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter. 3. To assemble a household circuit

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comprising three bulbs, three (on/off) switches, a fuse and a power source. 4. To assemble the components of a given electrical circuit. 5. To study the variation in

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potential drop with length of a wire for a steady current. 6. To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and

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voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.
Section B Experiments 1. To find the value of v for

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different values of u in case of a concave mirror and to find the focal length. 2. To find the focal length of a convex lens by plotting graphs between u and v or between $1/v$ and $1/u$. 3. To

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find the focal length of a convex mirror, using a convex lens. 4. To find the focal length of a concave lens, using a convex lens. 5. To determine angle of minimum deviation for a

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given prism by plotting a graph between angle of incidence and angle of deviation. 6. To determine refractive index of a glass slab using a travelling microscope. 7. To find

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refractive index of a liquid by using (i) concave mirror, (ii) convex lens and plane mirror. 8. To draw the I-V characteristic curve of a p-n junction in forward bias and reverse bias. 9. To draw the

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characteristic curve of a zener diode and to determine its reverse break down voltage. 10. To study the characteristics of a common-emitter npn or pnp transistor and to find out

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the values of current and voltage gains. Activitie 1. To study effect of intensity of light (by varying distance of the source) on a L.D.R. 2. To identify a diode, a LED, a transistor

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and IC, a resistor and a capacitor from mixed collection of such items. 3. Use of multimeter to (i) identify base of transistor. (ii) distinguish between npn and pnp type transistors.

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(iii) see the unidirectional flow of current in case of a diode and a LED. (iv) check whether a given electronic component (e.g. diode, transistor or I C) is in working order. 4. To

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observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab. 5. To observe polarization of liquid using two Polaroids. 6. To observe diffraction of

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light due to a thin slit. 7. To study the nature and size of the image formed by (i) convex lens, (ii) concave mirror, on a screen by using a candle and a screen (for different distances of

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***the candle from the lens/mirror). 8. To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses.
Suggested Investigatory***

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Projects 1. To investigate whether the energy of a simple pendulum is conserved. 2. To determine the radius of gyration about the centre of mass of a metre scale as a bar

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pendulum. 3. To investigate changes in the velocity of a body under the action of a constant force and determine its acceleration. 4. To compare effectiveness of different

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materials as insulators of heat. 5. To determine the wavelengths of laser beam by diffraction. 6. To study various factors on which the internal resistance/emf of a cell depends. 7. To

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construct a time-switch and study dependence of its time constant on various factors. 8. To study infrared radiations emitted by different sources using photo-transistor. 9. To

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compare effectiveness of different materials as absorbers of sound. 10. To design an automatic traffic signal system using suitable combination of logic gates. 11. To study

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luminosity of various electric lamps of different powers and make. 12. To compare the Young's modulus of elasticity of different specimens of rubber and also draw their

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***elastic hysteresis curve. 13.
To study collision of two
balls in two dimensions. 14.
To study frequency
response of : (i) a resistor,
an inductor and a
capacitor, (ii) RL circuit, (iii)***

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***RC circuit, (iv) LCR series
circuit.***

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GoyalSBPD***

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PublicationsSBPD

Publications

***Section A : Flamingo (Prose
and Poetry) Flamingo : A
Prose 1.The Last Lesson -
Alphone Daudet, 2. Lost
Spring - Anees Jung, 3.***

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***Deep Water - William
Douglas, 4. The Rattrap -
Selma Lagerlof, 5. Indigo -
Louis Fischer, 6. Poets and
Pancakes - Ashokmitran, 7.
The Interview - Christopher
Silverster, 8. Going Places-***

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***A.P.Barton, Flaming : B
Poetry 1. My Mother at
sixty - Six - Kamala Das, 2.
An Elementary School
Classroom in a Slum-
Strphen Spender, 3.
Keeping Quiet- Pablo***

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***Neruda, 4. A Thing of
Beauty - John Keats, 5.A
Roadside Stand - Robert
Frost, 6. Aunt Jennifer's
Tigers - Adrienne Rich,
Section B : Vistas
(Supplementary Reader) 1.***

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***The Third Level - Jack
Finney, 2. The Tiger King -
Kalki, 3. Journey to the End
of the Earth - Tishani Doshi,
4. The Enemy - Pearl s.
Buck, 5. Should Wizard Hit
Mommy- John Updike, 6.On***

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***the Face of it - Susan Hill,
7. Evans Tries an O-Level-
Colin Dexter, 8. Memoreis
of Childhood - Zitkala-Sa
and Bama, Section C :
Grammar, Reading and
Writing 1. Unseen Passage,***

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**2. Case Based Factual
Passages, 3.
Advertisement, Notice and
Poster, 4. Writing Invitation
and Replies, 5. Letter
Writing, 6. Report Writing,
7. Article, 8. Debate, 9.**

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***Speech Writing, Board
Examination Paper
Science and Hypothesis
CBSE New Pattern Physics
Class 11 for 2021-22 Exam
(MCQs based book for Term
1)***

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Paper Of Dt. 14 Jan 2022)
Oswaal NCERT & CBSE
Question Bank Class 8
Mathematics Book (For
2022 Exam)
Comprehensive Practical
Physics XI

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**1.The Living World, 2.
Biological Classification,
3.Plant Kingdom, 4. Animal
Kingdom, 5. Morphology Of
Flowering Plants 6.
Anatomy Of Flowering
Plants 7. Structural**

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**Organisation In Animals, 8.
Cell : The Unit Of Life 9.
Biomolecules 10. Cell
Cycle And Cell Division,
11. Transport In Plants,
12. Mineral Nutrition, 13.
Photosynthesis In Higher**

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**Plants, 14. Respiration In
Plants 15. Plant Growth
And Development, 16.
Digestion And Absorption,
17. Breathing And Exchange
Of Gases, 18. Body Fluids
And Circulation, 19.**

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**Excretory Products And
Their Elimination, 20.
Locomotion And Movements,
21. Neural Control And
Coordination, 22 Hemical
Coordination And
Integration**

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Goyal Brothers Prakashan

SECTION : A EXPERIMENTS

1.To determine resistance per cm of a given wire by plotting a graph for potential difference versus current, 2.To find

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**resistance of a given wire
using meter bridge and
hence determine the
specifi resistance
(Resistivity) of its
material, 3.To verify the
laws of combination**

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**(Series/Parallel) of
resistance using ameter
bridge, 4.To compare the
e.m.f. of two given
primary cells using
potentiometer, 5.To
determine the internal**

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**resistance of a given
primary cell (e.g.
Leclanche cell) using
potentiometer, 6.To
determine the resistance
of a galvanometer by half
deflection method and to**

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find its figure of merit.

7 A. To convert a given galvanometer (of known resistance and figure of merit) into an ammeter of desired range and to verify the same, 7.B.To

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convert a given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same. 8.To find the frequency of AC mains

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**with a sonometer and horse-shoe magnet. SECTION : B
EXPERIMENTS 1.To find the value of v for different values of u in case of a concave mirror and to find the focal length, 2.To**

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find the focal length of a convex lens by plotting graph between u and v or $1/u$ and $1/v$. 3.To find the focal length of a convex mirror, using a convex lens.4.To find the focal

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**length of a concave lens,
using a convex lens. 5. To
determine the angle of
minimum deviation for a
given prism by plotting a
graph between the angle of
incidence and angle of**

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deviation, 6. To determine refractive index of a glass slab using a travelling microscope, 7.To find the refractive index of a liquid by using a convex lens and a plane

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**mirror, 8.To draw I-V
characteristics curve of a
p-n function in forward
bias and reverse bias,
9.To draw the
characteristics curve of a
zener diode and to**

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**determine its reverse
break down voltage, 10. To
study the characteristics
of a common-emitter n-p-n
or p-n-p transistor and to
find out the values of
current and voltage gains.**

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SECTION : A ACTIVITIES

1.To measure the resistance and impedance of an inductor with or without iron core, 2.To measure resistance voltage (AC/DC), current (AC) and

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check continuity of given circuit using multimeter,
3. To assemble a household circuit comprising of three bulbs, three (on/off) switches, a fuse and a power source. 4.To

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assemble the components of a given electrical circuit. 5.To study the variation in potential drop with length of a wire for a steady current, 6.To draw the diagram of a

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**given open circuit
comprising atleast a
battery,
resistor/rheostat, key
ammeter and voltmeter.
Make the components that
are not connected in**

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**proper order and correct
the circuit and also the
circuit diagram. SECTION :
B ACTIVITIES 1.To study
effect of intensity of
light (by varying distance
of the source) on an LDR**

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(Light Depending Resistor), 2.To identify a diode, a LED, a transistor, an IC, a resistor and a capacitor from mixed collection of such items, 3. Use a

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**multimeter to : (i)
identify the transistor,
(ii) distinguish between n-
p-n and p-n-p type
transistor, (iii) see the
unidirectional flow of
current in case of a diode**

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and a LED, (iv) Check whether a given electronic components (e.g diode, transistor or IC) is in working order, 4.To observe refraction and lateral deviation of a

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beam of light incident obliquely on a glass slab, 5. To observe polarisation of light using two polaroids, 6. To observe diffraction of light due to a thin slit, 7. To study

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the nature and size of the image formed by : (i) convex lens, (ii) concave mirror on a screen by using candle and a screen for different distance of the candle from the

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lens/mirror, 8.To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses.

SUGGESTED INVESTIGATORY

PROJECT 1.To Study Verious

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factors on which the Internal Resistance/EMF of a cell depends, 2.To study the variations in current following in a circuit containing L.D.R. because of variation. (a) In the

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**power of incomedescent lamp
used to illum inate the
L.D.R. Keeping all the
lamps in fixed position
(b) In the Distance of a
in condесcent lamp (of
fixed power) used to illum**

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**inate the L.D.R. 3. To
find the refractive
indeces of (a) Water (b)
Oil (Transparent) using a
plane mirror, an
equiconvex lens (made from
a glass of known**

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refractive index) and an adjustable object needle,
4. To design an appropriate logic gate combination for a given truth table. 5. To investigate the relation

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**between the ratio of : (i)
Output and Input voltage
(ii) Number of turns in
secondary coils and
primary coils of a self
designed transformer. 6.To
Investigate the dependence**

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**of angle of deviation on
the angle of incidence,
using a hollow prism
filled one by with
different transparent
fluids, 7.To Estimate the
charge induced on each one**

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**of the two identical
styrofoam balls suspended
in a vertical plane by
making use of coulomb's
Law :, 8.To study the
factors on which the self
inductance of a coil**

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depends by observing the effect of this coil, when put in series with a resistor (bulb) in a circuit fed up by an a.c. source of adjustable frequency, 9.To study the

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**earth's magnetic field
using a tangent
galvanometer. APPENDIX
Some Important Tables of
Physical Constants
Logarithmic and other
Tables**

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