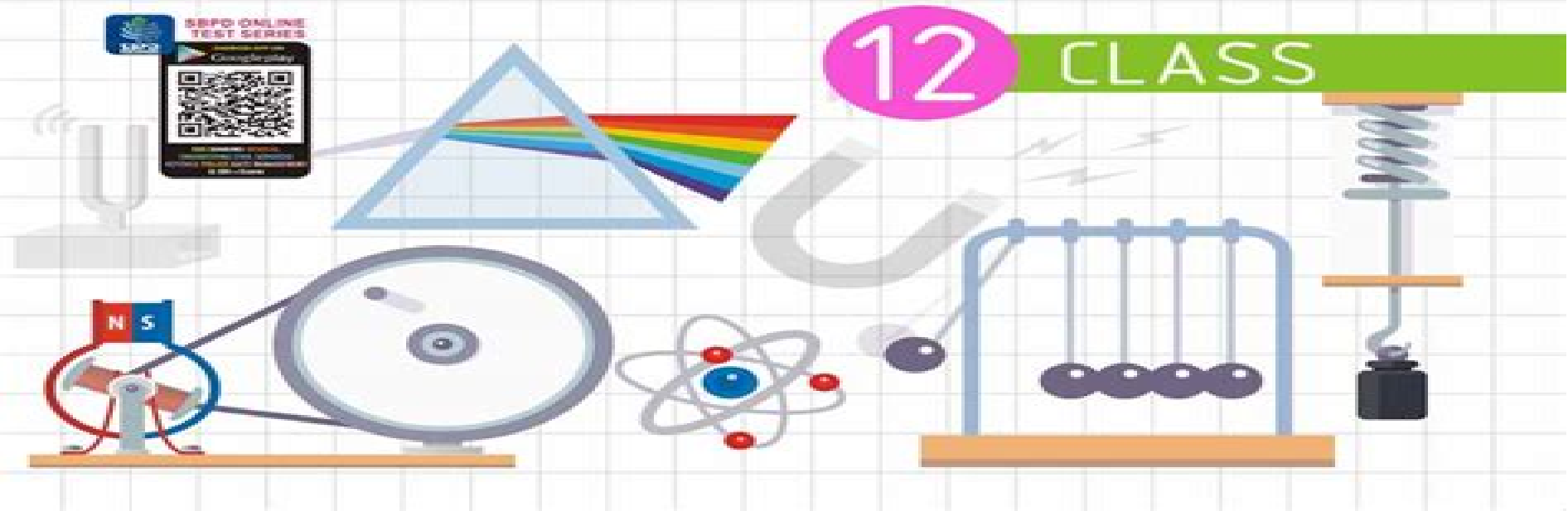


PHYSICS

CLASS



Class 12 Ncert Physics Practical Lab Manual

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Class 12 Ncert Physics Practical Lab Manual:

Practical/Laboratory Manual Physics Class XII based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal Dr. J. P. Goel, Er. Meera Goyal, 2020-06-24

SECTION A EXPERIMENTS

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- 2 To find resistance of a given wire using meter bridge and hence determine the specific resistance Resistivity of its material
- 3 To verify the laws of combination Series Parallel of resistance using ammeter bridge
- 4 To compare the e m f of two given primary cells using potentiometer
- 5 To determine the internal 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 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 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 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
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- 3 To find the focal length of a convex mirror using a convex lens
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SECTION B ACTIVITIES

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- 3 Use a 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 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 beam of light incident obliquely on a glass slab
- 5 To observe polarisation of light using two polaroids
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- 7 To study the nature and size of the image formed by i

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 lamp of fixed power used to illuminate the L D R 3 To find the refractive indices of a Water b Oil Transparent using a plane
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 Dr. J. P. Goel ,Er. Meera Goyal,2020-06-24

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Physics

- 1 To determine the focal length of concave mirror
- 2 To find the focal length of convex lens by two pin method
- 3 To find 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
- 4 To trace the path of the rays of light through a glass prism
- 5 To trace the path of a ray of light passing through a rectangular glass slab for different angles of incidence
- 6 To study 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
- 7 To determine the equivalent resistance of two resistors when connected in series and parallel

Chemistry

- 8 To find the pH of the following samples by using pH paper universal indicator
- 9 To study the properties of a base dil NaOH Solution and Acid HCl by their reaction with a Litmus solution
- Blue
- Red
- b Zinc metal
- c Solid sodium carbonate
- 10 To perform and observe the following reactions and to classify them into a Combination reaction b Decomposition reaction c Displacement reaction d Double displacement reaction
- i Action of water on quick lime
- ii Action of heat on ferrous sulphate crystals
- iii Iron nails kept in copper sulphate solution
- iv Reaction between sodium sulphate and barium chloride solutions
- 11 To observe the action of Zn Fe Cu and Al on the following salt solutions a $ZnSO_4$ aq b $FeSO_4$ aq c $CuSO_4$ aq d $Al_2(SO_4)_3$ aq
- Based on the above result to arrange Zn Fe Cu and Al metals in the decreasing order of reactivity
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- iv Reaction with sodium hydrogen carbonate
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- 15 To show experimentally that carbon dioxide CO_2 is given out during aerobic respiration
- 16 To study A Binary fission in Amoeba and B Budding in yeast with the help of prepared slides
- 17 To identify the different parts of an embryo of a dicot seed pea gram or red kidney beans

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APPENDIX Some Important Tables of Physical Constants

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