

## Cbse Class 12 Physics Practical Syllabus Marking Scheme

Educart Class 12 Physics Question Bank combines remarkable features for Term 2 Board exam preparation. Exclusively developed based on Learning Outcomes and Competency-based Education Pattern, this one book includes Chapter-wise theory for learning; Solved Questions (from NCERT and DIKSHA); and Detailed Explanations for concept clearance and Unsolved Self Practice Questions for practice. Topper's Answers are also given to depict how to answer Questions according to the CBSE Marking Scheme Solutions.

□ Strictly as per the Term wise syllabus & Sample Question Paper released on 2nd Sept.,2021 □ Exam-Targeted,5 solved & 10 Self-Assessment Papers □ All Types of MCQs□Assertion-reason & Case-based □ Answers with Explanations & OMR Sheets after each Sample Question Paper □ Academically important (AI) Questions for Board Exam □ Learn more with □Mind Maps□ □ On-Tips Notes□ for Quick Revision □ For detailed study, scan the QR code

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CBSE MCQs Chapterwise For Term I & II, Class 12, Physics

CBSE New Pattern Physics Class 12 for 2021-22 Exam (MCQs based book for Term 1)

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based on Assertion-Reason III. Case-based MCQs. □ Revision Notes for in-depth study □ Mind Maps & Mnemonics for quick learning □ Include Questions from CBSE official Question Bank released in April 2021 □ Answer key with Explanations □ Concept videos for blended learning (science & maths only)

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CBSE Class 12 Physics Handbook - MINDMAPS, Solved Papers,

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*Strictly as per the Term-II syllabus for Board 2022 Exams (March-April) Includes Questions of the both -Objective & Subjective Types Questions Objective Questions based on new typologies introduced by the board - Stand- Alone MCQs, MCQs based on Assertion-Reason Case-based MCQs. Subjective Questions includes - Short & Long Answer Types Questions Include Questions from CBSE official Question Bank released in April 2021 Chapter wise Tests 2 Full Syllabus Practice Papers*

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- *Multiple Choice Questions based on new typologies introduced by the board- I. Stand- Alone MCQs, II. MCQs based on Assertion-Reason III. Case-based MCQs.*
- *Include Questions from CBSE official Question Bank released in April 2021*
- *Answer key with Explanations*

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**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 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 a meter 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, 2.To 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 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 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 mirror, 8.To draw I-V characteristics curve of a p-n junction in forward bias and reverse bias, 9.To draw the characteristics curve of a zener diode and to 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. 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 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 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 given open circuit comprising atleast a battery, resistor/rheostat, key ammeter and voltmeter. Make the components that are not connected in 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 (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 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,
6. To observe diffraction of 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 candle and a screen for different distance of 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 PROJECT**

- 1. To Study Various 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 power of incandescent lamp used to illuminate the L.D.R. Keeping all the lamps in fixed position (b) In the Distance of a incandescent 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 mirror, an equiconvex lens (made from a glass of known 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 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 of angle of deviation on the angle of incidence, using a hollow prism filled one by one with different transparent fluids,**
- 7. To Estimate the charge induced on each one 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 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 earth's magnetic field using a tangent galvanometer.**

**APPENDIX Some Important Tables of Physical Constants Logarithmic and other Tables**

- 1. This book deals with CBSE New Pattern Physics for Class 12**
- 2. It is divided into 6 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 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 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 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 12 Term 1" that is designed to cover all the Term I chapters as per rationalized syllabus in a Complete & Comprehensive form. Focusing on the MCQs, this book divided the first have syllabus of Physics into 6 chapters giving the complete coverage. Quick Revision Notes are covering all the 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. 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 Electric Charges and Fields, Electrostatic Potential and Capacitance, Current Electricity, Moving Charges and Magnetism, Magnetism and Matter, Electromagnetic Induction, Altering Current, Practice Papers (1-3) Oswaal CBSE Term 2 English Core, Physics, Chemistry & Mathematics Class 12 Sample**



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With newly introduced 2 Term Examination Pattern, CBSE has eased  
out the pressure of preparation of subjects and cope up with  
lengthy syllabus. Introducing, Arihant's CBSE TERM II – 2022  
Series, the first of its kind that gives complete emphasize on  
the rationalize syllabus of Class 10th & 12th. The all new "CBSE  
Term II 2022 – Physics" of Class 12th provides explanation and  
guidance to the syllabus required to study efficiently and  
succeed in the exams. The book provides topical coverage of all  
the chapters in a complete and comprehensive manner. Covering  
the 50% of syllabus as per Latest Term wise pattern 2021-22,  
this book consists of: 1. Complete Theory in each Chapter  
covering all topics 2. Case-Based, Short and Long Answer Type  
Question in each chapter 3. Coverage of NCERT, NCERT Exemplar &  
Board Exams' Questions 4. Complete and Detailed explanations for

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each question 5. 3 Practice papers base on entire Term II Syllabus. Table of Content Electromagnetic Waves, Ray Optics and Optical Instruments, Wave Optics, Dual Nature of Radiation and Matter, Atoms, Nuclei, Semiconductor Electronics, Materials, Devices and Simple Circuits, Practice Papers (1-3).

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