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onwards. In the new scheme of examination, CCE and term system has been replaced with the Internal Assessment & Single Annual Exam by CBSE itself. Single exam conducted by CBSE will carry 80 marks whereas 20 marks are left to the schools for internal assessment. CBSE has issued detailed guidelines on how the internal marks will be divided among different activities. From 2019 onwards, there will be internal choices in board examinations with increased internal options in the question paper. Considering this change, now a student has to prepare accordingly for board examinations. The new assessment format brought with it excitement as well as anxiety. And to help them prepare and excel in their CBSE board examination, Career Point Kota has developed a series of 10 Most Likely Question Papers with Solutions. The Key Features of Most Likely Question Papers with Solutions Series : New OBJECTIVE TYPE question in each paper. Syllabus of CBSE 2019-20. Based on the latest CBSE Syllabus & Pattern. Mind map of each chapter is given to visualize and help acquire a better understanding. Important terms, facts, formulae and quick revision tips are given. Covers questions asked in previous year board exams. Toppers Answer Sheet as released by CBSE to understand the scoring technique. We hope this book will gratify students' need for the new CBSE pattern board exam and smoothen their path to success. We wish to utilize the opportunity to place on record our special thanks to all the members of the Content Development team for their efforts to create this wonderful book. The CBSE has made certain changes in the assessment structure from the session 2019-20 onwards. In the new scheme of examination, CCE and term system has been replaced with the Internal Assessment & Single Annual Exam by CBSE itself. Single exam conducted by CBSE will carry 80 marks whereas 20 marks are left to the schools for internal assessment. CBSE has issued detailed guidelines on how the internal marks will be divided among different activities. From 2019 onwards, there will be internal choices in board examinations with increased internal options in the question paper. Considering this change, now a student has to prepare accordingly for board examinations. The new assessment format

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enthalpy change 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

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

**F. 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 potassium ferric oxalate or potassium trioxalato 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 *o*-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 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 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, 4.Prepare M/20 solution of Mohr's salt, using this solution determine the molarity and strength of potassium permanganate

**K. Qualitative Analysis** Viva-Voce

**INVESTIGATORY PROJECTS**

**1.** To study the presence of oxalate ions 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 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 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, **9.** To investigate the presence of  $NO_2^-$  in brinjal. This product covers the following: • **10 Sample Papers-5 Solved & 5 Self-Assessment Papers** strictly designed as per the latest CBSE Sample Paper released on 16th September'2022 • **2023 Board Sample Paper analysis** • **On-Tips Notes & Revision Notes for Quick Revision** • **Mind Maps & Mnemonics with 1000+concepts** for better learning • **200+MCQs & Objective Type Questions** for practice This product covers the following: • **10 Sample Papers-5 Solved & 5 Self-Assessment Papers** strictly designed as per the latest CBSE Sample Paper released on 16th September'2022 • **2023 Board Sample Paper analysis** • **On-Tips Notes & Revision Notes for Quick Revision** • **Mind Maps & Mnemonics with 1000+concepts** for better learning • **500+Questions** for practice

**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 ameter 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

at least 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 Description of the product: • 100% Updated with Latest Syllabus & Fully Solved Board Paper • Crisp Revision with timed reading for every chapter • Extensive Practice with 3000+ Questions & Board Marking Scheme Answers • Concept Clarity with 1000+concepts, Smart Mind Maps & Mnemonics • Final Boost with 50+ concept videos • NEP Compliance with Competency Based Questions & Art Integration Section A : Flamingo (Prose and Poetry) Flamingo : A Prose 1.The Last Lesson - Alphonse Daudet, 2. Lost Spring - Anees Jung, 3. 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- A.P.Barton, Flaming : B Poetry 1. My Mother at sixty - Six - Kamala Das, 2. An Elementary School Classroom in a Slum- Stephen Spender, 3. Keeping Quiet- Pablo 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. 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 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, 2. Case Based Factual

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pattern board exam and smoothen their path to success. We wish to utilize the opportunity to place on record our special thanks to all the members of the Content Development team for their efforts to create this wonderful book. Description of the product: • 100% Updated with Latest Syllabus & Fully Solved Board Paper • Crisp Revision with timed reading for every chapter • Extensive Practice with 3000+ Questions & Board Marking Scheme Answers • Concept Clarity with 1000+ concepts, Smart Mind Maps & Mnemonics • Final Boost with 50+ concept videos • NEP Compliance with Competency Based Questions & Art Integration 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 & Mathematics 2022-23 Includes Term 1 Exam paper 2021+Term II CBSE Sample paper+ Latest Topper Answers The CBSE Books Class 12 2022 -23 comprises Revision Notes: Chapter wise & Topic wise The CBSE Question Bank Class 12 Physics, Chemistry & Mathematics 2022-23 includes Exam Questions: Includes Previous Years Board Examination questions (2013-2021) It includes CBSE Marking Scheme Answers: Previous Years' Board Marking scheme answers (2013-2020) The CBSE Books Class 12 2022 -23 also includes New Typology of Questions: MCQs, assertion-reason, VSA ,SA & LA including case based questions The CBSE Question Bank Class 12 Physics, Chemistry & Mathematics 2022-23 includes Toppers Answers: Latest Toppers' handwritten answers 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 learning The CBSE Question Bank Class 12 Physics, Chemistry & Mathematics 2022-23 includes Academically Important (AI) look out for highly expected questions for the upcoming exams Chapter Navigation Tools • CBSE Syllabus : Strictly as per the latest CBSE Syllabus dated: April 21, 2022 Cir. No.

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