

# Kn Sharma Chemistry

Lab Manual Chemistry Class XII -by Dr. K. N. Sharma, Dr. Subhash Chandra Rastogi, Er. Meera Goyal (SBPD Publications) Chemistry Competition Science Vision Lab Manual Latest Edition Polymer Supported Organic Catalysts Inorganic Chemistry of the Transition Elements Indian Journal of Chemistry Organometallic Compounds Journal of the Institution of Chemists (India). Detailed Report of the General Committee Homoeopathic Pharmacopoeia of India (H.P.I.) Diabetes Literature Index Inorganic Chemistry of the Transition Elements Analytical Instrumentation and Techniques in Electrochemistry Commonwealth Universities Yearbook Bibliography of Doctoral Dissertations Indian Science Abstracts Agra University Journal of Research Annual Scientific Report Proceedings of the National Academy of Sciences, India Dr. K. N. Sharma Dr. K. N. Sharma Dr. J. P. Goel Narendra Chauhan B. F. G. Johnson Institution of Chemists (India) Indian Tea Association India. Homoeopathic Pharmacopoeia Committee Agra University Tea Research Association Lab Manual Chemistry Class XII -by Dr. K. N. Sharma, Dr. Subhash Chandra Rastogi, Er. Meera Goyal (SBPD Publications) Chemistry Competition Science Vision Lab Manual Latest Edition Polymer Supported Organic Catalysts Inorganic Chemistry of the Transition Elements Indian Journal of Chemistry Organometallic Compounds Journal of the Institution of Chemists (India). Detailed Report of the General Committee Homoeopathic Pharmacopoeia of India (H.P.I.) Diabetes Literature Index Inorganic Chemistry of the Transition Elements Analytical Instrumentation and Techniques in Electrochemistry Commonwealth Universities Yearbook Bibliography of Doctoral Dissertations Indian Science Abstracts

Agra University Journal of Research Annual Scientific Report Proceedings of the National Academy of Sciences, India *Dr. K. N. Sharma Dr. K. N. Sharma Dr. J. P. Goel Narendra Chauhan B. F. G. Johnson Institution of Chemists (India) Indian Tea Association India. Homoeopathic Pharmacopoeia Committee Agra University Tea Research Association*

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lab e manual physics for 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 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 examination one experiment from any one section 8 marks two activities one from each section 4 4 8 marks practical record experiments activities 6 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 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 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 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 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 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 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 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 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 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 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  $1/u$  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 angle of minimum deviation for a 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 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 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 the values of current and voltage gains

- 1 to study effect of intensity of light by varying distance of the source
- 2 to identify a diode a led a transistor 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 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 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 polarization of liquid 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 a candle and a screen for different distances 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 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 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 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 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 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 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 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 rc circuit iv lcr series circuit

polymer supported organic catalysts are largely insoluble in most reaction solvents which allows for easy recovery and recycling of the catalysts they are generally stable readily available and environmental friendly so they have attracted the interest of many synthetic chemists in the industrial and academic fields in this book different types of polymer supported catalysts based on peptides polystyrene polyethers poly acrylic acid poly ethylene imine poly 2 oxazoline poly isobutylene poly norbornene etc as well as metals are included with their synthetic organic synthesis applications it is believed that this work will be of interest to organic chemists material scientists chemical engineers polymer scientists and technologists

annotation specialist periodical reports provide systematic and detailed review coverage of progress in the major areas of chemical research written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry for over 80 years the royal society of chemistry and its predecessor the chemical society have been publishing reports charting developments in chemistry which originally took the form of annual reports however by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series specialist periodical reports was born the annual reports themselves still existed but were divided into two and subsequently three volumes covering inorganic organic and physical chemistry for more general coverage of the highlights in chemistry they remain a must since that time the spr series has altered according to the fluctuating degree of activity in various fields of chemistry some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued the current list of specialist periodical reports can be seen on the inside flap of this volume

specialist periodical reports provide systematic and detailed review coverage of progress in the major areas of chemical research written by experts in their specialist fields the series creates a unique service for the active research chemist

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