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Rationale: Profound muscle weakness during and after critical illness is termed intensive care unit-acquired weakness (ICUAW). Objectives: To develop diagnostic recommendations for ICUAW. Methods: A ...

American Journal of Respiratory and Critical Care Medicine

Whereas certain oral antifungal azoles are well documented to have activity against leishmania, data on the efficacy of fluconazole for leishmaniasis are limited. We

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conducted a controlled trial ...

Fluconazole for the Treatment of Cutaneous Leishmaniasis Caused by Leishmania major

Individuals acting as surrogate decision makers for critically ill patients frequently struggle in this role and experience high levels of long-term psychological distress. Prior interventions ...

Annals of the American Thoracic Society

Last week, the US Department of Transportation and FAA released their rules governing drones, model aircraft, unmanned aerial systems, and quadcopters - a rose by any other name will be ...

Here's The Reason The FAA's Drone Registration System Doesn't Make Sense

RPE is used in conjunction with heart rate as an end point of the testing procedure as well as being recommended in the CST manual as a guide to prescribe the intensity of subsequent exercise. When ...

Reliability and validity of measures taken during the Chester step test to predict aerobic power and to prescribe aerobic exercise

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2 Red Sea Research Center, Biological and Environmental Sciences and Engineering Division, King Abdullah University of Science and Technology, Thuwal 23955-6900, Saudi Arabia. 3 Department of Biology, ...

Pushing the limits of photoreception in twilight conditions: The rod-like cone retina of the deep-sea pearlsides

Patients with shift-work sleep disorder chronically have excessive sleepiness during night work and insomnia when attempting to sleep during the day. We evaluated the use of modafinil for treating ...

Modafinil for Excessive Sleepiness Associated with Shift-Work Sleep Disorder

If you have ever studied the early history of the GNU/Linux operating system in its many forms, you'll have read that [Linus Torvalds] developed his first kernel for his Intel 386-based ...

The Latest Linux - On A Floppy In A 486!

More than 80% of all peer-reviewed publications on this topic have been published in the last 10 years (>1 000 papers using the search terms 'sleep' and 'athlete', Web of Science ... research and ...

Sleep and the athlete: narrative review and 2021 expert consensus recommendations

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Science fiction, comic book, fantasy, and video game news. The Academy Museum is opening with an Oscars experience more akin to a theme park attraction. Expect more like it in future museums.

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 difference 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 studying 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

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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,12.To study the following properties of acetic acid (ethanoic acid) : (i) Odour, (ii) Solubility in water, (iii) Effect on litmus, (iv) Reaction with sodium hydrogen carbonate. 13.To study the comparative cleaning capacity of a sample of soap in soft and hard water. Biology : 14.To study stomata by preparing a temporary mount of a leaf peel. 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.)

An Excellent Book in Accordance with the latest syllabus for Class-11 Prescribed by CBSE/NCERT and Adopted by Various State

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Education Boards. (A) Basic Laboratory Techniques - 1. To cut a glass tube or glass rod, 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 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 point of a given liquid when available in small quantity (simple laboratory method), 3. To prepare crystals of pure potash alum $[K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O]$ 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 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 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 Vs. strong acid by using universal indicator paper, 4. To study the pH change by common ion (CH₃COO⁻ ion) in case of weak acid (CH₃COOH), 5. To determine the change in pH value of weak base (NH₄OH) in presence of a common ion (NH₄⁺), (D) Chemical Equilibrium 1. To study the shift in equilibrium between ferric ions and thiocyanate ions by changing the concentrations of either of the ions, 2.

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

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 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 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 by ozone treatment

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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 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 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 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 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 Table

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