

**IB SL and HL Topic 1 to 5 Chemistry Theory
100 Marks**

1. The relative molecular mass of aluminium chloride is 267 and its composition by mass is 20.3% Al and 79.7% chlorine. Determine the empirical and molecular formulas of aluminium chloride.

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(Total 4 marks)

2. Sodium reacts with water as follows.



1.15 g of sodium is allowed to react completely with water. The resulting solution is diluted to 250 cm³. Calculate the concentration, in mol dm⁻³, of the resulting sodium hydroxide solution.

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(Total 3 marks)

Ib Chemistry Sl May 2014 Paper 1

Jamil S. Saad, Delphine M. Muriaux



Ib Chemistry Sl May 2014 Paper 1:

Role of Lipids in Virus Assembly Jamil S. Saad, Delphine M. Muriaux, 2015-07-28 RNA enveloped viruses comprise several families belonging to plus and minus strand RNA viruses such as retroviruses, flavoviruses and orthomyxoviruses. Viruses utilize cellular lipids during critical steps of replication like entry, assembly and egress. Growing evidence indicates important roles for lipids and lipid nanodomains in virus assembly. This special topic covers key aspects of virus membrane interactions during assembly and egress, especially those of retroviruses and Ebola virus (EBOV). Virus assembly and release involve specific and nonspecific interactions between viral proteins and membrane compartments. Retroviral Gag proteins assemble predominantly on the PM. Despite the great progress in identifying the factors that modulate retroviral Gag assembly on the PM, there are still gaps in our understanding of precise mechanisms of Gag membrane interactions. Studies over the last two decades have focused on the mechanisms by which other retroviral Gag proteins interact with membranes during assembly. These include human immunodeficiency virus (HIV), Rous sarcoma virus (RSV), equine infectious anemia virus (EIAV), Mason-Pfizer monkey virus (M-PMV), murine leukemia virus (MLV) and human T-lymphotropic virus type 1 (HTLV-1). Additionally, assembly of filoviruses such as EBOV also occurs on the inner leaflet of the PM. The articles published under this special topic highlight the latest understanding of the role of membrane lipids during virus assembly, egress and release.

The Science IA Daniel Slosberg, 2016-02-17 **Thermal Energy** Yatish T. Shah, 2018-01-12 The book details sources of thermal energy, methods of capture and applications. It describes the basics of thermal energy, including measuring thermal energy, laws of thermodynamics that govern its use and transformation, modes of thermal energy, conventional processes, devices and materials and the methods by which it is transferred. It covers 8 sources of thermal energy: combustion, fusion, solar fission, nuclear, geothermal, microwave, plasma, waste heat and thermal energy storage. In each case, the methods of production and capture and its uses are described in detail. It also discusses novel processes and devices used to improve transfer and transformation processes.

Exploring Natural Product Chemistry A Bryan Hanley, 2024-08-19 Global warming and even more recently the COVID pandemic have brought into public focus our dependence on science and the lens with which it considers the world. Science is providing opportunities for new ways of thinking and has always opened new avenues for creative thought and advances. This book examines and summarises the developments and changes in approaches to organic and natural product chemistry as seen through the published works of the author and seeks to place them in a philosophical and societal context. Demonstrating and explaining how scientists and more particularly chemists arrive at a world view, it will show how this is predicated not just by scientific advances but also by societal influences. The author uses personal experience to detail progress through science. Techniques used in such investigations are alluded to but not described in detail since the interested reader can access the full published papers if required. Interesting both to the general scientifically literate reader and to the specialist wanting information on natural product chemistry, the book does not

create a rulebook for carrying out natural product chemistry but rather examines the processes that lie beneath the development of natural product chemistry and how this enables chemists to examine and interpret the world. Students of chemistry whatever their age or stage of career may also be interested in reading how peer reviewed and published material relates to the wider society view

Medical Aspects of Biological Warfare, 2e Joel Bozue, Christopher K. Cote, Pamela J. Glass, The Borden Institute, U.S. Army Medical Department, 2018-08-01 Reflecting the critical threat posed by biological warfare and terrorism in a post 9 11 world Medical Aspects of Biological Warfare 2e addresses the weaponization of biological agents categorizing potential agents as food waterborne or agricultural agents or toxins and discusses their respective epidemiology Recent advances in biomedical knowledge are presented that include descriptions of individual agents and the illnesses induced Authors discuss biotoxins and explain methods for early identification for anthrax plague smallpox alphaviruses and staphylococcal enterotoxins Case studies and research on successful management practices treatments and antidotes are also included Contains updated and revised material since previous 2007 edition Previous Print Hardcover ISBN 9780160797316 eBook 9780160872389 Related products More published products by The Borden Institute U S Army Medical Department AMEDD are here <https://bookstore.gpo.gov/agency/army-medical-department/amedd-arms-weapons-collection> Weapons collection is available here <https://bookstore.gpo.gov/catalog/arms-weapons> Click here to find resources about Hazardous Materials HAZMAT CBRNE Find more Physician References and Medical Handbooks here <https://bookstore.gpo.gov/catalog/physician-references-medical-handbooks>

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