

2(d)(i)	<b>M1</b> $\text{mol HY} =$ $(50 \times 10^{-3}) \times 0.428 = 0.0214$	<b>OR</b> $[Y] =$ $0.0238 \times \frac{500}{50} = 0.472$	1	mark for answer
	<b>M2</b> $[H^+] = 1.35 \times 10^{-4} \times \frac{0.0214}{0.0238}$  <b>OR</b> $1.35 \times 10^{-4} = [H^+] \times \frac{0.0238}{0.0214}$	<b>OR</b> $[H^+] = 1.35 \times 10^{-4} \times \frac{0.428}{0.472}$  <b>OR</b> $1.35 \times 10^{-4} = [H^+] \times \frac{0.472}{0.428}$	1	<p>must be numbers not just rearrangement of <math>K_a</math> expression</p> <p>If either HY value or <math>Y^-</math> value wrong, (apart from A1, -1) lose M2 and M3</p>
	<b>M3</b> $[H^+] = 1.22 \times 10^{-4}$		1	mark for answer
	<b>M4</b> $\text{pH} = 4.91$		1	<p>allow more than 2dp but not fewer</p> <p>allow M4 for correct pH calculation using their [H<sup>+</sup>] (this would be M4(i) not)</p>

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**Christopher Chantler, Bruce  
Bunker, Federico Boscherini**



#### **Chem4 2014 Mark Scheme:**

**Paper Microfluidics** Shantanu Bhattacharya, Sanjay Kumar, Avinash K Agarwal, 2019-10-08 This volume provides an overview of the recent advances in the field of paper microfluidics whose innumerable research domains have stimulated considerable efforts to the development of rapid cost effective and simplified point of care diagnostic systems The book is divided into three parts viz theoretical background of paper microfluidics fabrication techniques for paper based devices and broad applications Each chapter of the book is self explanatory and focuses on a specific topic and its relation to paper microfluidics and starts with a brief description of the topic s physical background essential definitions and a short story of the recent progress in the relevant field The book also covers the future outlook remaining challenges and emerging opportunities This book shall be a tremendous up to date resource for researchers working in the area globally

**Nanomaterial - Based Biomedical Applications in Molecular Imaging, Diagnostics and Therapy** Amitabha Acharya, 2020-05-23 This book comprehensively reviews the recent advances in nanomaterial based molecular imaging diagnostics and personalized therapy It discusses the novel biocompatible fluorescent nanomaterials their synthesis and modern state of art characterization as well as the various strategies for immobilization of biomacromolecules on the nanomaterial surface and approaches for increasing their stability In addition the book describes the synthesis of lectin nanoconjugates using different types of biocompatible raw materials and their systematic characterization Lastly it presents our current understanding of the biomolecular corona which affects nanoparticle based targeted drug delivery and examines the conceptual approaches to improve the in vivo efficacy of targeted drug delivery

**Filamentous Bacteriophage in Bio/Nano/Technology, Bacterial Pathogenesis and Ecology** Jasna Rakonjac, Bhabatosh Das, Ratmir Derda, 2017-02-16 Filamentous phage genus Inovirus infect almost invariably Gram negative bacteria They are distinguished from all other bacteriophage not only by morphology but also by the mode of their assembly a secretion like process that does not kill the host Classic Escherichia colifilamentous phage Ff f1 fd and M13 are used in display technology and bio nano technology whereas filamentous phage in general have been put to use by their bacterial hosts for adaptation to environment pathogenesis biofilm formation horizontal gene transfer and modulating genome stability Many filamentous phage have a symbiotic life style that is often manifested by inability to form plaques preventing their identification by standard phage hunting techniques while the absence or very low sequence conservation between phage infecting different species often complicates their identification through bioinformatics Nevertheless the number of discovered filamentous phage is increasing rapidly along with realization of their significance Temperate filamentous phage whose genomes are integrated into the bacterial chromosome of pathogenic bacteria often modulate virulence of the host The Vibrio cholerae phage CTXf genome encodes cholera toxin whereas many filamentous prophage influence virulence without encoding virulence factors The nature of their effect on the bacterial pathogenicity and overall physiology is the next frontier in understanding intricate

relationship between the filamentous phage and their hosts Phage display has been widely used as a combinatorial technology of choice for discovery of therapeutic antibodies and peptide leads that have been applied in the vaccine design diagnostics and drug development or targeting over the past thirty years Virion proteins of filamentous phage are integral membrane proteins prior to assembly hence they are ideal for display of bacterial surface and secreted proteins The use of this technology at the scale of microbial community has potential to identify host interacting proteins of uncultivable or low represented community members Recent applications of Ff filamentous phage extend into protein evolution synthetic biology and nanotechnology In many applications phage serves as a monodisperse long aspect nano scaffold of well defined shape Chemical or genetic modifications of this scaffold are used to introduce the necessary functionalities such as fluorescent labels ligands that target specific proteins or peptides that promote formation of inorganic or organic nanostructures We anticipate that the future holds development of new strategies for particle assembly site specific multi functional modifications and improvement of existing modification strategies These improvements will render the production of filamentous phage templated materials safe and affordable allowing their applications outside of the laboratory

Corrosion and Corrosion Protection of Wind Power Structures in Marine Environments Andreas Momber, 2024-04-07 Corrosion and Corrosion Protection of Wind Power Structures in Marine Environments Volume 2 Corrosion Protection Measures offers the first comprehensive review on corrosion and corrosion protection of offshore wind power structures The book extensively discusses corrosion phenomena and corrosion types in different marine corrosion zones including the modeling of corrosion processes and interactions between corrosion and structural stability The book addresses important design issues namely materials selection relevant to their performance in marine environments corrosion allowance and constructive design Active and passive corrosion protection measures are emphasized with special sections on cathodic corrosion protection and the use of protective coatings Seawater related issues associated with cathodic protection such as calcareous deposit formation hydrogen formation and fouling are discussed With respect to protective coatings the book considers for the first time complete loading scenarios including corrosive loads mechanical loads and special loads and covers a wide range of coating materials Problems associated with fouling and bacterial induced corrosion are extensively reviewed The book closes with a chapter on recent developments in maintenance strategies inspection techniques and repair technologies The book will be of special interest to materials scientists materials developers corrosion engineers maintenance engineers civil engineers steel work designers mechanical engineers marine engineers chemists and coating specialists Offshore wind power is an emerging renewable technology and a key factor for a cleaner environment Offshore wind power structures are situated in a demanding and challenging marine environment The structures are loaded in a complex way including mechanical loads and corrosive loads Corrosion is one of the major limiting factors to the reliability and performance of the technology Maintenance and repair of corrosion protection systems are particularly laborious and costly Explores the literature between

1950 and 2020 and contains over 2000 references Offers the most complete monograph on the issue Covers all aspects of corrosion protection in detail including coatings cathodic protection corrosion allowance constructive design as well as maintenance and repair Delivers the most complete review on corrosion of metals in marine offshore environments Focuses on all aspects of offshore wind power structures namely foundations towers internal sections connection flanges and transformation platforms International Tables for Crystallography, Volume I Christopher Chantler, Bruce Bunker, Federico Boscherini, 2024-08-19 X ray absorption spectroscopy and X ray emission spectroscopy are complementary to crystallographic methods particularly for materials science and the study of nanostructure and systems with partial disorder and partial local order including solutions gases liquids glasses and powders This new volume of International Tables for Crystallography has nine parts and over 150 chapters contributed by a wide range of international experts Part 1 provides a brief overview and introduction to the background of X ray absorption spectroscopy XAS and experimental facilities Part 2 discusses the quantum theory of XAS and related approaches Part 3 describes both standard and advanced experimental methods used in XAS X ray emission spectroscopy XES and related techniques Part 4 covers both standard and more advanced pre processing of data Part 5 gives an extensive overview of the analysis of experimental data Part 6 provides details of the major software packages for data collection reduction and analysis Part 7 outlines the importance in science reporting and hypothesis testing of the exchange of input and processed output data and data deposition It also presents excerpts of tables of data and supplementary material for XAS pre edge studies X ray absorption near edge spectroscopy XANES and X ray absorption fine structure XAFS studies These tables are also available in full as online supporting information Part 8 explores a wide range of applications of XAS in fields including materials science physics chemistry biology earth sciences catalysis and cultural heritage Part 9 presents definitions of the terms and quantities used as developed by the International Union of Crystallography's Commission on XAFS The volume has been written for the worldwide XAS community of thousands of practitioners beamline scientists experts and academics and for the novice user who wishes to know what XAS and XES can do for them and how they may use these techniques for their particular purposes The volume is therefore intended to be a self contained authoritative reference work that can also be used for training learning or teaching providing practical guidance for readers of all levels of experience More information on the volumes in the series International Tables for Crystallography can be found at <https://it.iucr.org>

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