

1 This question is about enzymes.

1.1 Amylase is an enzyme.
What does amylase break down?
Tick **one** box.

- ☐ proteins
- ☐ lipids
- ☐ starch
- ☐ amino acids

[1 mark]

Figure 1 shows an enzyme-controlled reaction.



1.2 What word is used to describe the molecule labelled **X** in **Figure 1**?
Tick **one** box.

- ☐ enzyme
- ☐ substrate
- ☐ product
- ☐ active site

[1 mark]

1.3 What word is used to describe the molecule labelled **Z** in **Figure 1**?
Tick **one** box.

- ☐ enzyme
- ☐ substrate
- ☐ product
- ☐ active site

[1 mark]

Science Exam Paper Foundation Bpc

Jason J. Blackstock, Sean Low



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Computing and the National Science Foundation, 1950-2016 Peter A. Freeman, W. Richards Adrion, William Aspray, 2019-11-21 This organizational history relates the role of the National Science Foundation NSF in the development of modern computing Drawing upon new and existing oral histories extensive use of NSF documents and the experience of two of the authors as senior managers this book describes how NSF's programmatic activities originated and evolved to become the primary source of funding for fundamental research in computing and information technologies The book traces how NSF's support has provided facilities and education for computing usage by all scientific disciplines aided in institution and professional community building supported fundamental research in computer science and allied disciplines and led the efforts to broaden participation in computing by all segments of society Today the research and infrastructure facilitated by NSF computing programs are significant economic drivers of American society and industry For example NSF supported work that led to the first widely used web browser Netscape sponsored the creation of algorithms at the core of the Google search engine facilitated the growth of the public Internet and funded research on the scientific basis for countless other applications and technologies NSF has advanced the development of human capital and ideas for future advances in computing and its applications This account is the first comprehensive coverage of NSF's role in the extraordinary growth and expansion of modern computing and its use It will appeal to historians of computing policy makers and leaders in government and academia and individuals interested in the history and development of computing and the NSF

Oversight of the National Science Foundation United States. Congress. House. Committee on Science and Technology (2007). Subcommittee on Research and Science Education, 2008

Making Software Andy Oram, Greg Wilson, 2010-10-14 Many claims are made about how certain tools technologies and practices improve software development But which claims are verifiable and which are merely wishful thinking In this book leading thinkers such as Steve McConnell Barry Boehm and Barbara Kitchenham offer essays that uncover the truth and unmask myths commonly held among the software development community Their insights may surprise you Are some programmers really ten times more productive than others Does writing tests first help you develop better code faster Can code metrics predict the number of bugs in a piece of software Do design patterns actually make better software What effect does personality have on pair programming What matters more how far apart people are geographically or how far apart they are in the org chart Contributors include Jorge Aranda Tom Ball Victor R Basili Andrew Begel Christian Bird Barry Boehm Marcelo Cataldo Steven Clarke Jason Cohen Robert DeLine Madeline Diep Hakan Erdogmus Michael Godfrey Mark Guzdial Jo E Hannay Ahmed E Hassan Israel Herraiz Kim Sebastian Herzig Cory Kapser Barbara Kitchenham Andrew Ko Lucas Layman Steve McConnell Tim Menzies Gail Murphy Nachi Nagappan Thomas J Ostrand Dewayne Perry Marian Petre Lutz Prechelt Rahul Premraj Forrest Shull Beth Simon Diomidis Spinellis Neil Thomas Walter Tichy Burak Turhan Elaine J Weyuker Michele A Whitecraft Laurie Williams

Wendy M Williams Andreas Zeller Thomas Zimmermann Participation in Computing William Aspray, 2016-03-01 This book provides a history of the efforts of the US National Science Foundation to broaden participation in computing The book briefly discusses the early history of the NSF's involvement with education and workforce issues It then turns to two programs outside the computing directorate the ADVANCE program and the Program on Women and Girls that set the stage for three programs in the NSF computing directorate on broadening participation the IT Workforce Program the Broadening Participation in Computing program and the Computing Education for the 21st Century program The work looks at NSF funded research and NSF funded interventions both to increase the number of women underrepresented minorities African Americans Hispanics and American Indians and people with disabilities and to increase the number of public schools offering rigorous instruction in computing Other organizations such as the ACM the Computer Science Teachers Association and Code.org are also covered The years covered are primarily 1980 to the present

Research in Computational Molecular Biology Roded Sharan, 2014-02-28 This book constitutes the refereed proceedings of the 18th Annual International Conference on Research in Computational Molecular Biology RECOMB 2014 held in Pittsburgh PA USA in April 2014 The 35 extended abstracts were carefully reviewed and selected from 154 submissions They report on original research in all areas of computational molecular biology and bioinformatics

Research in Education, 1970-05 **Clean Coal Technology and Sustainable Development** Guangxi Yue, Shuiqing Li, 2016-07-30 This book gathers the proceedings of the 8th International Symposium on Coal Combustion The contributions reflect the latest research on coal quality and combustion techniques for pulverized coal combustion and fluidized bed combustion special issues regarding CO₂ capture CCS industrial applications etc aspects that are of great importance in promoting academic communications between related areas and the technical development of coal related fields The International Symposium on Coal Combustion ISCC sponsored and organized by Tsinghua University since 1987 has established itself as an important platform allowing scientists and engineers to exchange information and ideas on the science and technology of coal combustion and related issues and to forge new partnerships in the growing Chinese market Researchers in the fields of clean coal combustion carbon dioxide capture and storage coal chemical engineering energy engineering etc will greatly benefit from this book Guangxi Yue professor of the Department of Thermal Engineering in Tsinghua University Beijing China and a member of Chinese Academy of Engineering CAE Shuiqing Li professor of the Department of Thermal Engineering in Tsinghua University Beijing China

Resources in Education, 1970-07 *International Law as a Profession* Jean d'Aspremont, Tarcisio Gazzini, André Nollkaemper, Wouter Werner, 2017-04-06 This collection of self-reflective essays explores the relations between international legal professions and their respective understandings of international law

Acta Physica Sinica, 1995 *Geoengineering our Climate?* Jason J. Blackstock, Sean Low, 2018-09-04 If the detrimental impacts of human induced climate change continue to mount technologies for geoengineering our climate i.e. deliberate modifying of the Earth's climate system at a large scale are likely

to receive ever greater attention from countries and societies worldwide Geoengineering technologies could have profound ramifications for our societies and yet agreeing on an international governance framework in which even serious research into these planetary altering technologies can take place presents an immense international political challenge In this important book a diverse collection of internationally respected scientists philosophers legal scholars policymakers and civil society representatives examine and reflect upon the global geoengineering debate they have helped shape Opening with essays examining the historic origins of contemporary geoengineering ideas the book goes on to explore varying perspectives from across the first decade of this global discourse since 2006 These essays methodically cover the practical and ethical dilemmas geoengineering poses the evolving geoengineering research agenda the challenges geoengineering technologies present to current international legal and political frameworks and differing perceptions of geoengineering from around the world The book concludes with a series of forward looking essays some drawing lessons from precedents for governing other global issues others proposing how geoengineering technologies might be governed if as they begin to emerge from the lab into the real world This book is an indispensable resource for scientists activists policymakers and political figures aiming to engage in the emerging debate about geoengineering our climate

Chemist and Druggist, 1924 **Currency Use and**

Payment Patterns W.C. Boeschoten, 2012-12-06 Acknowledgements The work underlying this study was performed at the Econometric and Special Studies Department of the Nederlandsche Bank where many contributed to it I am indebted to all the statistical assistants of the department especially to Anja Wouters and Rob Vet for their patient assistance in building up the data sets and analysing the survey data Also Corina den Broeder rendered devoted and persistent research assistance with respect to the multicountry analysis during her stay at the Bank and I am grateful to Mike Clements of the Bank of England for his careful reading and commenting on that part My colleagues Peter van Els and Carlo Winder made some valuable suggestions Liesbeth Klein and Coen Collee helped me avoid a number of errors in English and thanks to the skilful efforts of Marietta Bakker Gita Gajapersad and Carolien Verhoeven the text looks as it does Above all owe a debt of gratitude to Martin Fase one of the pioneers in this field of research for his efforts and contribution to the improvement of this study

INTRODUCTION We seem to be well on the way to a cashless society Paradoxically however the majority of the transactions are still paid in cash even in the most advanced economies A second paradoxical observation is that despite the primary and common character of currency the economic theory on the use of and demand for cash is only rarely supported by empirical evidence

Business Process Management Mathias Weske, Marco Montali, Ingo Weber, Jan vom

Brocke, 2018-08-31 This book constitutes the proceedings of the 16th International Conference on Business Process

Management BPM 2018 held in Sydney Australia in September 2018 The 27 papers presented in this volume were carefully reviewed and selected from 140 submissions They were organized in topical sections named reflections on BPM concepts and methods in business process modeling and analysis foundations of process discovery alignments and conformance checking

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