

WORKED SOLUTIONS

Worked Solutions for CSEC® Examinations 2012-2016

Biology

GENERAL PROFICIENCY

B. Hollamby & G. Hollamby



WORKED SOLUTIONS
FOR CSEC[®] EXAMINATIONS
2012–2016

Biology

BRYAN HOLLAMBY AND GILL HOLLAMBY

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BIOLOGY Worked Solutions for CSEC[®] Examinations
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Macmillan Education
4 Crinan Street
London N1 9XW
A division of Macmillan Publishers Limited
Companies and representatives throughout the world

ISBN 978-1-380-00283-9

ISBN 978-1-380-02350-6 AER

Text © Bryan Hollamby and Gill Hollamby 2017

Design and illustration © Macmillan Publishers Limited 2017

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First published 2013

This edition published 2017

Design by Macmillan Education

Page make-up by Sparks Publishing Services Ltd – www.sparkspublishing.com

Illustrated by Oxford Designers & Illustrators

Cover design by Macmillan Education

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1 INTRODUCTION

What is this book about?

This book is your companion to the Caribbean Examinations Council (CXC) Secondary Education Certificate examination in Biology.

It contains five sets of 60 multiple choice questions similar to those that will appear on Biology Paper 01, together with answers to these questions.

It also contains complete answers to the questions set on the May/June Biology Paper 02 for the years 2012 to 2014 (syllabus first examined in 2004) and the May/June Biology Paper 02 for the years 2015 and 2016 (syllabus first examined in 2015).

In addition to the answer to each question, where appropriate, an explanation is given so you do not just get the right answer but, more importantly, you can see how it has been worked out and why it is presented in a particular way.

How can I use this book?

This book is designed to help you to increase your knowledge of biology and improve your chances of success in your forthcoming examination.

One of the best ways for you to find out exactly what you know (or don't know) and how well you can organise your knowledge is to try to answer actual examination questions taken from past papers.

There is a chapter on how to revise. This will help you to draw up a revision timetable, and show you how to stay focused on what you have to do. The chapter also includes tips from experienced examiners on how to avoid throwing away marks by making silly mistakes and how to squeeze those few extra marks by writing down what you know in the clearest possible way. Those few extra marks just might earn you a higher grade.

This book is a very flexible revision aid and you can use it in different ways depending on what best suits your revision programme.

At the end of your revision programme you could simply try to answer the questions on the examination papers to check how much biology you know by comparing your answers with those in this book.

However, this book allows you to make far better use of the examination questions as an actual part of your revision programme.

At the back of the book there is a Table of Topics from the relevant Biology Syllabus. This is a list of short topics that together cover the entire content of the Biology syllabus. Alongside each topic there is a list of questions about that topic that appear in the multiple choice tests and in the 2012–2016 examination papers.

- You may decide to organise your revision programme topic by topic and test yourself at the end of each topic. A hard and daunting task, like revising for your Biology examination, is often made easier by breaking it down into smaller parts. Each time you complete a topic you will have the satisfaction of knowing a little more and that will give you the confidence to carry on with your studies.

- You may be having trouble with particular topics. You can use the topic list to identify the questions linked to these topics very easily and concentrate your time on them. This might be useful at the end of your revision when time is short.

There is far more to this book than simply providing a set of correct answers. Read the explanation given for each question carefully, even if you got the question correct. It will help you to appreciate exactly what the examiner is asking for and how best to organise your answer in order to get the maximum number of marks available. You will be able to apply much of the advice given on examination technique and organisation when answering the questions in your forthcoming examination.

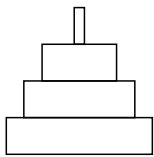
After completing the questions, you might like to compare your marks with the grade indicators provided by the examination board. This will give you some idea of what grade you are likely to get in your forthcoming examination.

Finally, you will be able to consider which topics appear most frequently on the examination papers. This will allow you to focus your revision and maybe improve your performance.

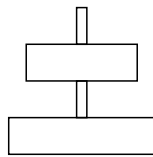
3 BIOLOGY – PAPER 01 – MULTIPLE CHOICE QUESTIONS

Test A Paper 01

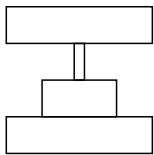
- Which kingdom contains organisms that contain the green pigment chlorophyll?
 - Animalia
 - Fungi
 - Plantae
 - Prokaryotes
- Which class of the chordates was the first to exist on Earth?
 - amphibians
 - birds
 - fish
 - reptiles
- The abiotic features of a terrestrial environment are
 - the effects of living things on the soil
 - the non-living factors affecting the environment
 - the plants that are found in the environment
 - those factors that are poisonous to living things
- On a farm, chickens feed on seeds from cereal crops. Fleas feed on foxes and the foxes eat chickens. Which pyramid of numbers represents the components of this food chain?



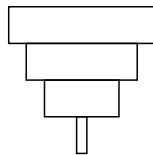
A



B

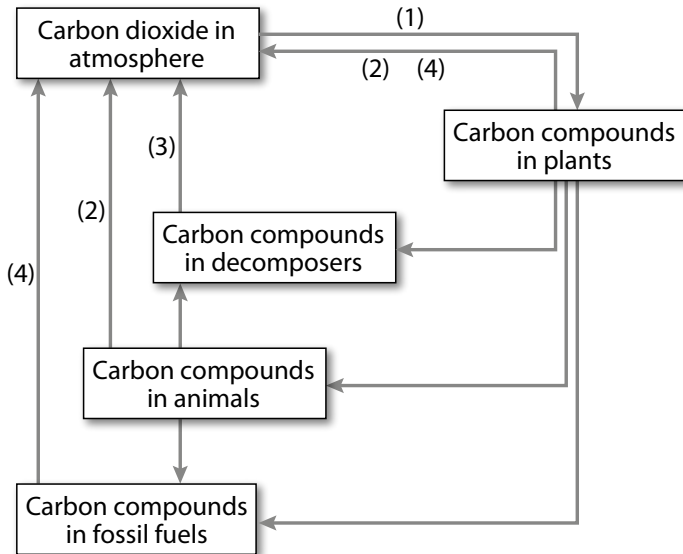


C



D

5. Which group of organisms is NOT usually represented in a pyramid of numbers?
- A carnivores
 - B decomposers
 - C herbivores
 - D producers
6. Ticks are small animals that feed on the blood of the species of mammal on which they live. In some cases they transmit a disease to the mammal. Which type of relationship is this an example of?
- A commensalism
 - B mutualism
 - C parasitism
 - D predation
7. The diagram shows the carbon cycle.



Which process is brought about by bacteria and fungi?

- A arrow 1
- B arrow 2
- C arrow 3
- D arrow 4