

IB biology past essay questions HL and SL all units and mark scheme

2023 (A+)

Outline what is meant by the trophic level of an organism with three examples from one named habitat. (4 max) - Answer-feeding level for an organism in a food chain

naming of habitat (1 mark)

naming three trophic levels correctly (1 mark)

three examples forming a food chain from the named habitat (1 mark)

2. Compare the ways in which autotrophic, heterotrophic and saprotrophic organisms obtain energy. (6 max) - Answer-autotrophs use an external / non-organic energy source

(reject statements suggestion that energy is made)

(some) autotrophs use light / (some) autotrophs use photosynthesis

(some) autotrophs use inorganic chemical reactions / (some) autotrophs use chemosynthesis

heterotrophs obtain energy from other organisms

heterotrophs (usually) ingest food / consume food

saprotrophs obtain energy from non-living matter / dead organisms

saprotrophs digest organic matter extracellularly

3. Draw a labelled sigmoid population growth curve. 4 marks - Answer-x-axis (time) and y-axis (number in population/of individuals) correctly labelled; (do not accept growth on y-axis)

S curve correctly drawn;

lag phase;

exponential/log phase;

population growth slowing down / transitional phase / environmental resistance;

plateau phase;

To award marks phases must be labelled not just drawn. Award 3 max if no axes shown.

4. Explain the factors that cause a population to follow the sigmoid (S-shaped) growth curve. (8 max) - Answer-during exponential growth the population grows at an increasing rate

all / most / many offspring survive / birth rate higher than death rate

all / most / many offspring reproduce

each generation produces more offspring than the last

plateau reached eventually / population levels off / birth rate equals death rate

when carrying capacity of environment is reached

e.g. when no more food / nutrients / resources available

e.g. when no more space for nesting / space for another purpose is available

e.g. when numbers of predators have increased

Past Papers Ib Biology Hl

Léo Pomar

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Biology for the IB Diploma Exam Preparation Guide Brenda Walpole, 2015-06-25 Biology for the IB Diploma Second edition covers in full the requirements of the IB syllabus for Biology for first examination in 2016 **Biology for the IB Diploma** Andrew Allott, 2001 This concise guide provides all the content you need for the IB Diploma in Biology at both Standard and Higher Level Follows the structure of the IB Programme exactly and include all the options Each topic is presented on its own page for clarity Standard and Higher Level material clearly indicated Plenty of practice questions Written with an awareness that English may not be the reader's first language *Introducing the IB Diploma Programme* Marc Abrioux, Jill Rutherford, 2013-02-14 Schools wishing to introduce the IB diploma programme are faced with major investment in terms of time effort and money in order to become authorised This manual is a resource for schools already offering the diploma as well as for prospective diploma schools **IB** I.Study Publishing Ltd, 2020-09-15 IB IBDP IB IB DSE *Environmental Systems and Societies for the IB Diploma* Virginia D'Britto, Öykü Dulun, Emma Shaw, Joseph Cazabon, 2024-06-28 Developed in cooperation with the International Baccalaureate Ensure full coverage of the updated syllabus with a coursebook that implements inquiry based and conceptually focused teaching and learning written by highly experienced global authors Explore the three key concepts in the new course perspectives systems and sustainability which allow students to deepen their understanding and make interdisciplinary connections throughout with HL content clearly signposted Prepare students for assessment with a range of options exam style questions top tip boxes and hints to help avoid common mistakes Integrate TOK into lessons and create opportunities for cross curriculum study with case studies real world examples and up to date data Provide plenty of practise with activities review questions and chapter summaries allowing students to recap themes and test knowledge Enable students to feel confident in course terminology with ESL support definitions key terms and a glossary *Chemistry for the IB Diploma* Geoff Neuss, 2001 This concise guide provides the content needed for the Chemistry IB diploma at both Standard and Higher Level It follows the structure of the IB Programme exactly and includes all the options Each topic is presented on its own page for clarity Higher Level material is clearly indicated and there are plenty of practice questions The text is written with an awareness that English might not be the reader's first language *Physics for the IB Diploma* Tim Kirk, 2003 Developed for the 2007 course outline This study guide for the IB Diploma Physics exam was expertly written by a chief examiner and covers all the Core and Optional materials at both Standard and Higher level Highly illustrated this guide contains clear concise review of processes terms and concepts with practice exercises modeled on exam question types This guide is perfect as both a study aide for coursework and as a review guide for the IB examination *Backpacker*, 2001-03 Backpacker brings the outdoors straight to the reader's doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world's first GPS enabled magazine and the only magazine whose editors personally test the

hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured

Biology of Longevity and Aging Robert Arking,2019-01-10 An introductory text to the biology of aging and longevity offering a thorough review of the field

The Franciscana Dolphin Paulo Cesar Simoes-Lopes,Marta Jussara Cremer,2022-06-24 The Franciscana Dolphin On the Edge of Survival provides the most updated and comprehensive knowledge on the most endangered marine mammal in the Western South Atlantic Ocean It synthesizes all available information on this dolphin species also referred to as La Plata dolphin ranging from taxonomy evolution diet parasites and diseases reproduction and growth to genetic diversity and stock definition distribution abundance behavior as well as the threats and causes behind the dwindling population numbers Written by international experts this book explores aspects of the species natural history and urgent problems of accidental mortality in fishing nets contamination and habitat loss It offers the most current research and practices on rehabilitating debilitated animals and presents initiatives at the regional and international level for species conservation including current and potential strategies related to marine protected areas and public policies The Franciscana Dolphin On the Edge of Survival is an important resource for researchers and practitioners in marine conservation marine biology and zoology particularly those who seek to gain the most reputable information on vulnerable marine mammal species for conservation efforts Policymakers and public officials involved in environmental protection and planning will also find this useful to combat similar threats with other dolphin species around the world Offers the most up to date research of the species natural history biology and ecology Discusses current threats and solutions for species conservation which can be applied to other marine mammal species Provides updates on national and international agreements and policies for conservation efforts

The New International Encyclopædia Frank Moore Colby,Talcott Williams,1917 The New International Encyclopaedia ,1929 **Special Papers** ,1934 Human Evolution Camilo J. Cela-Conde,Francisco J. Ayala,2007-09-27 This book is intended as a comprehensive overview of hominid evolution synthesising data and approaches from physical anthropology genetics archaeology psychology and philosophy Human evolution courses are now widespread and this book has the potential to satisfy the requirements of most particularly at the advanced undergraduate and graduate level It is based on a translation albeit with substantial modification of a successful Spanish language book

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The First Immigrants from Asia A.J. Jaffe,1992-08-31

Survey of the evolution of Amerindians from their migration from Asia into North America to the present day **Briefing,**
July 1, 1980 Colorado. Governor's Scientific and Technology Advisory Council,1980 *Arts & Humanities Citation Index*
,1996

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Table of Contents Past Papers Ib Biology Hl

1. Understanding the eBook Past Papers Ib Biology Hl
 - The Rise of Digital Reading Past Papers Ib Biology Hl
 - Advantages of eBooks Over Traditional Books
2. Identifying Past Papers Ib Biology Hl
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Past Papers Ib Biology Hl
 - User-Friendly Interface
4. Exploring eBook Recommendations from Past Papers Ib Biology Hl
 - Personalized Recommendations

- Past Papers Ib Biology HL User Reviews and Ratings
- Past Papers Ib Biology HL and Bestseller Lists
- 5. Accessing Past Papers Ib Biology HL Free and Paid eBooks
 - Past Papers Ib Biology HL Public Domain eBooks
 - Past Papers Ib Biology HL eBook Subscription Services
 - Past Papers Ib Biology HL Budget-Friendly Options
- 6. Navigating Past Papers Ib Biology HL eBook Formats
 - ePub, PDF, MOBI, and More
 - Past Papers Ib Biology HL Compatibility with Devices
 - Past Papers Ib Biology HL Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Past Papers Ib Biology HL
 - Highlighting and Note-Taking Past Papers Ib Biology HL
 - Interactive Elements Past Papers Ib Biology HL
- 8. Staying Engaged with Past Papers Ib Biology HL
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Past Papers Ib Biology HL
- 9. Balancing eBooks and Physical Books Past Papers Ib Biology HL
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Past Papers Ib Biology HL
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Past Papers Ib Biology HL
 - Setting Reading Goals Past Papers Ib Biology HL
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Past Papers Ib Biology HL
 - Fact-Checking eBook Content of Past Papers Ib Biology HL

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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