

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 First Examination Hl

M Carnoy



Past Papers Ib Biology First Examination HL:

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 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 *Biology for the IB Diploma Third edition* C. J. Clegg, Andrew Davis, 2023-05-05 Developed in cooperation with the International Baccalaureate Trust experienced and best selling authors to navigate the new syllabuses confidently with these coursebooks that implement inquiry based and conceptually focused teaching and learning Ensure a continuum approach to concept based learning through active student inquiry our authors are not only IB Diploma experienced teachers but are also experienced in teaching the IB MYP and have collaborated on our popular MYP by Concept series Build the skills and techniques covered in the Tools Experimental techniques Technology and Mathematics with direct links to the relevant parts of the syllabus these skills also provide the foundation for practical work and internal assessment Integrate Theory of Knowledge into your lessons with TOK boxes and Inquiries that provide real world examples case studies and questions The TOK links are written by the author of our bestselling TOK coursebook John Sprague and Paul Morris our MYP by Concept series and Physics co author Develop approaches to learning with ATL skills identified and developed with a range of engaging activities with real world applications Explore ethical debates and how scientists work in the 21st century with Nature of Science boxes throughout Help build international mindedness by exploring how the exchange of information and ideas across national boundaries has been essential to the progress of science and illustrates the international aspects of science Consolidate skills and improve exam performance with short and simple knowledge checking questions exam style questions and hints to help avoid common mistakes Quick Reference for Counselors ,2011 **Learning and Understanding** National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Committee on Programs for Advanced Study of Mathematics and Science in American High Schools, 2002-08-06 This book takes a fresh look at programs for advanced studies for high school students in the United States with a particular focus on the Advanced Placement and the International Baccalaureate programs and asks how advanced studies can be significantly improved in general It also examines two of the core issues surrounding these programs they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs this report provides teachers parents curriculum developers administrators college science and mathematics faculty and the educational research community with a detailed assessment that can be used to guide change

within advanced study programs Biology for the IB Diploma Coursebook with Free Online Material Brenda Walpole, Ashby Merson-Davies, Leighton Dann, Peter Hoeben, Mark Headlee, 2014-03-13 Biology for the IB Diploma Second edition covers in full the requirements of the IB syllabus for Biology for first examination in 2016 The second edition of this well received Coursebook is fully updated for the IB Biology syllabus for first examination in 2016 comprehensively covering all requirements Get the best coverage of the syllabus with clear assessment statements and links to Theory of Knowledge International mindedness and Nature of Science themes Exam preparation is supported with plenty of sample exam questions online test questions and exam tips Chapters covering the Options and Nature of Science assessment guidance and answers to questions are included in the free online material available with the book **IB** I. Study Publishing Ltd, 2020-09-15 IB IBDP IB IB DSE **IB World Schools Yearbook 2013** Jonathan Barnes, 2012 There are currently more than 3600 IB World Schools and this number is growing annually The IB World Schools Yearbook is the official guide to schools authorised to offer the International Baccalaureate Primary Years Middle Years Diploma and Programmes It tells you where the schools are and what they offer and provides up to date information about the IB programmes and the International Baccalaureate This is an ideal reference for schools administration parents and education ministries worldwide as it provides a comprehensive reference of IB World Schools for quick and easy access raises the profile of schools within the IB World School community and beyond reinforces a sense of belonging to the IB World School community *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 **Association Medical Journal** , 1906 **British Medical Journal** , 1898 **The Street railway journal** , 1894 The Journal of Education , 1925

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Quarterly Review ,1867 *Backpacker* ,2003-03 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

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