

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

All Past Papers Biology Ib Hl

Andrew Allott



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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 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 **Oxford Resources for IB Diploma Programme: IB Prepared: Biology 2023 Edition eBook** Debora M. Primrose, 2025-03-13 Please note this title is suitable for any student studying Exam Board International Baccalaureate Level and subject Diploma Programme Biology First teaching 2023 First exams 2025 IB Prepared resources are developed directly with the IB to provide the most up to date authentic and authoritative guidance on DP assessment IB Prepared Biology 2023 Edition combines a concise review of course content with strategic guidance past paper material and exam style practice opportunities allowing learners to consolidate the knowledge and skills that are essential to success *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 World Schools Yearbook 2012, 2012 **Quick Reference for Counselors**, 2011 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

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