# 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

 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 sward marks phases must be labelled not just drawn. Award 3 may if no aver

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 that the last plateau reached eventually / population levels off / birth rate equals death rate when carring 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**

**Jonathan Barnes** 

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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 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 quidance 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 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 Introducing the IB Diploma Programme Marc Abrioux, Iill Rutherford, 2013-02-14 Schools wishing to introduce language 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 fullly 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

Oxford IB Course Preparation: Biology for IB Diploma Course Preparation Marwa Bkerat, 2019-07-25 Directly linked to Oxford's bestselling DP Science resources this new Course Preparation resource thoroughly prepares students to meet the demands of IB Diploma Programme Biology Ideal for students who have studied non IB courses at pre 16 level the text introduces learners to the IB approach terminology and skills IB World Schools Yearbook 2011 Wendy Bosberry-Scott, 2011 This yearbook is the official guide to schools offering the International Baccalaureate Diploma Middle Years and Primary Years 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 Organization Oxford IB Diploma Programme: Biology Course Companion Andrew Allott, David Mindorff, 2014-03-06 The only DP Biology resource developed with the IB to accurately match the new 2014 syllabus for both SL and HL this completely revised edition gives you unparallelled support for the new concept based approach to learning the Nature of science Understanding applications and skills are integrated in every topic alongside TOK links and real world connections to drive inquiry and independent learning Assessment support directly from the IB includes practice questions and worked examples in each topic along with focused support for the Internal Assessment Truly aligned with the IB philosophy this Course Book gives unrivalled insight and support at every stage Accurately cover the new syllabus the most comprehensive match with support directly from the IB on the core AHL and all the options Fully integrate the new concept based approach holistically addressing understanding applications skills and the Nature of science Tangibly build assessment potential with assessment support str □□ IB □□□□□□□□□□□ I.Study Publishing Ltd,2020-09-15 IB IBDP IB IB DSE **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 Oxford IB Study Guides: Biology for the IB Diploma Andrew Allott, 2014-10-02 This comprehensive Study Guide reinforces all the key concepts for the 2014 syllabus ensuring students develop a clear understanding of all the crucial topics at SL and HL Breaking concepts down into manageable sections and with diagrams and illustrations to cement understanding exam preparation material is integrated to build student confidence and assessment potential Directly linked to the Oxford Biology Course Book to extend and sharpen comprehension this book supports maximum achievement in the course and assessment Fully comprehensive and matched to the new 2014 svllabus Concise and focused approach simplifies complex ideas building truly confident understanding Clear and explanatory style

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