

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

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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 **Misconceptions in Biology** Matthew C.K. Ma, Jacky Y.H. Au, 2020-01-11 Public exam is not just a game of scoring the most points it is also a game of making the least errors and mistakes The purpose of public exam is to distinguish good students from the bad ones And to do this the examiners need to set up many pitfall traps You must prepare yourself to jump over these traps Otherwise you may have a hard time scoring marks which will sadly cost you the exam or even your future This book aims to teach you how to avoid making fatal mistakes in Biology exams The authors will dig into and dissect the common misconceptions in Biology Features 5 in 1 exam guide Exam Practice Misconception Misconception Analysis Concept Review and Exam Drill 240 most common errors and misconceptions distilled from MiB database which includes 1 300 errors and mistakes in 20 years of Markers Report Bonus material List of commonly misspelled biological terms Suitable for HKDSE IB IGCSE GCSE GCE O level and A level Biology Available in ePub and PDF format hkdse biology bio sba exam bioexam exercise guide test

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