

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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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* ,1925

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