

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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Table of Contents Mark Scheme Ib Bio Sl 2013

1. Understanding the eBook Mark Scheme Ib Bio Sl 2013
 - The Rise of Digital Reading Mark Scheme Ib Bio Sl 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Mark Scheme Ib Bio Sl 2013
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mark Scheme Ib Bio Sl 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mark Scheme Ib Bio Sl 2013
 - Personalized Recommendations
 - Mark Scheme Ib Bio Sl 2013 User Reviews and Ratings
 - Mark Scheme Ib Bio Sl 2013 and Bestseller Lists

5. Accessing Mark Scheme Ib Bio Sl 2013 Free and Paid eBooks
 - Mark Scheme Ib Bio Sl 2013 Public Domain eBooks
 - Mark Scheme Ib Bio Sl 2013 eBook Subscription Services
 - Mark Scheme Ib Bio Sl 2013 Budget-Friendly Options
6. Navigating Mark Scheme Ib Bio Sl 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mark Scheme Ib Bio Sl 2013 Compatibility with Devices
 - Mark Scheme Ib Bio Sl 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mark Scheme Ib Bio Sl 2013
 - Highlighting and Note-Taking Mark Scheme Ib Bio Sl 2013
 - Interactive Elements Mark Scheme Ib Bio Sl 2013
8. Staying Engaged with Mark Scheme Ib Bio Sl 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mark Scheme Ib Bio Sl 2013
9. Balancing eBooks and Physical Books Mark Scheme Ib Bio Sl 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mark Scheme Ib Bio Sl 2013
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mark Scheme Ib Bio Sl 2013
 - Setting Reading Goals Mark Scheme Ib Bio Sl 2013
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mark Scheme Ib Bio Sl 2013
 - Fact-Checking eBook Content of Mark Scheme Ib Bio Sl 2013
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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