

# **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

# Ib Biology Sl Paper 2 20mark Scheme

**Cameron Dawson**



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## **Table of Contents Ib Biology Sl Paper 2 20mark Scheme**

1. Understanding the eBook Ib Biology Sl Paper 2 20mark Scheme
  - The Rise of Digital Reading Ib Biology Sl Paper 2 20mark Scheme
  - Advantages of eBooks Over Traditional Books
2. Identifying Ib Biology Sl Paper 2 20mark Scheme
  - 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 Ib Biology Sl Paper 2 20mark Scheme
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ib Biology Sl Paper 2 20mark Scheme
  - Personalized Recommendations
  - Ib Biology Sl Paper 2 20mark Scheme User Reviews and Ratings
  - Ib Biology Sl Paper 2 20mark Scheme and Bestseller Lists
5. Accessing Ib Biology Sl Paper 2 20mark Scheme Free and Paid eBooks
  - Ib Biology Sl Paper 2 20mark Scheme Public Domain eBooks
  - Ib Biology Sl Paper 2 20mark Scheme eBook Subscription Services

- Ib Biology Sl Paper 2 20mark Scheme Budget-Friendly Options
- 6. Navigating Ib Biology Sl Paper 2 20mark Scheme eBook Formats
  - ePub, PDF, MOBI, and More
  - Ib Biology Sl Paper 2 20mark Scheme Compatibility with Devices
  - Ib Biology Sl Paper 2 20mark Scheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ib Biology Sl Paper 2 20mark Scheme
  - Highlighting and Note-Taking Ib Biology Sl Paper 2 20mark Scheme
  - Interactive Elements Ib Biology Sl Paper 2 20mark Scheme
- 8. Staying Engaged with Ib Biology Sl Paper 2 20mark Scheme
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ib Biology Sl Paper 2 20mark Scheme
- 9. Balancing eBooks and Physical Books Ib Biology Sl Paper 2 20mark Scheme
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ib Biology Sl Paper 2 20mark Scheme
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ib Biology Sl Paper 2 20mark Scheme
  - Setting Reading Goals Ib Biology Sl Paper 2 20mark Scheme
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ib Biology Sl Paper 2 20mark Scheme
  - Fact-Checking eBook Content of Ib Biology Sl Paper 2 20mark Scheme
  - 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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