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# **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 Ib Biology Paper Sl November 22**

1. Understanding the eBook Ib Biology Paper Sl November 22
  - The Rise of Digital Reading Ib Biology Paper Sl November 22
  - Advantages of eBooks Over Traditional Books
2. Identifying Ib Biology Paper Sl November 22
  - 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 Paper Sl November 22
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ib Biology Paper Sl November 22
  - Personalized Recommendations

- Ib Biology Paper Sl November 22 User Reviews and Ratings
- Ib Biology Paper Sl November 22 and Bestseller Lists
- 5. Accessing Ib Biology Paper Sl November 22 Free and Paid eBooks
  - Ib Biology Paper Sl November 22 Public Domain eBooks
  - Ib Biology Paper Sl November 22 eBook Subscription Services
  - Ib Biology Paper Sl November 22 Budget-Friendly Options
- 6. Navigating Ib Biology Paper Sl November 22 eBook Formats
  - ePub, PDF, MOBI, and More
  - Ib Biology Paper Sl November 22 Compatibility with Devices
  - Ib Biology Paper Sl November 22 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ib Biology Paper Sl November 22
  - Highlighting and Note-Taking Ib Biology Paper Sl November 22
  - Interactive Elements Ib Biology Paper Sl November 22
- 8. Staying Engaged with Ib Biology Paper Sl November 22
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ib Biology Paper Sl November 22
- 9. Balancing eBooks and Physical Books Ib Biology Paper Sl November 22
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ib Biology Paper Sl November 22
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ib Biology Paper Sl November 22
  - Setting Reading Goals Ib Biology Paper Sl November 22
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ib Biology Paper Sl November 22
  - Fact-Checking eBook Content of Ib Biology Paper Sl November 22

- 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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