



GR 11 Life Sciences Paper 2 scope

- 1 November 2024 -

The following framework outlines the detailed assessment of topics covered in the examination. Teachers are advised to review it with learners to ensure full understanding and effective preparation.

Biological terms: Ecosystems, ecology, environment, ecological niche, Interspecific competition, Intraspecific competition, Competitive exclusion, population density, population size, mortality, natality, chordate, cephalization, immigration, emigration, predator, prey, parasitism, resource partitioning, competition, parasitism, mutualism, commensalism, census, eukaryotic, procaryotic, alien plant species, monocultures, poaching, culling, eutrophication, , thallus, , indigenous plants, global warming, carbon footprint, food security , biodiversity , ozone, rhizoids, rhizome , pistil, invertebrates, specie, population, vaccination, antibiotics, pathogen, sexual reproduction	
Micro -organisms Structure and characteristics of: <ul style="list-style-type: none"> - Viruses - Bacterium - Fungi - Protista 	Biodiversity in plants - Identify the different plant groups <ul style="list-style-type: none"> - The presents or absence of the key features of the four groups of plants: - Vascular tissues - True leaves - Seed or spore - Fruit - Water for reproduction # Distinguish between the gametophyte generation and sporophyte generation in Bryophytes and Pteridophytes
Conditions in which bread mould grow	
Explain what a heterotrophic organism is	Structure of a flower
The role that Fungi plays in the environment	Adaptions for wind pollinations
Malaria - What cause malaria	Advantages of sexual reproduction
- Symptoms of malaria	
- How can you prevent malaria	
Biodiversity in Animals	Population Ecology
Key features of the six Phyla: <ul style="list-style-type: none"> - Symmetry - Number and names of tissues layers - Number of openings in gut - Coelom - Cephalisation - Blood systems 	<ul style="list-style-type: none"> - Factors that influence population size - Logistic and geometric growth curves and their phases - Predator-prey relation # Be able to determine which graph indicate the prey/predator and why <ul style="list-style-type: none"> - Determine the size of a population: Quadrant method and mark/capture

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N Colangelo



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Citizens and E-Government: Evaluating Policy and Management Reddick, Christopher G.,2010-04-30 This book examines the role that citizens play in the development of electronic government or e government specifically focusing on the impact of e government and citizens exploring issues of policy and management in government Provided by publisher

Economics, Sustainability, and Democracy Christopher L. Nobbs,2013 This text argues that the major economic problems of the present century involve issues of public goods and common pool resources with which orthodox economic theory based as it is on private markets is ill equipped to deal *Rethinking the Environmental Impacts of Renewable Energy* Alexander Clarke,2016-08-25 Renewable energy is important as a substitute for finite fossil fuels and inflexible nuclear power and could conceivably power the world However this is challenging as the world is currently 80% dependent on fossil fuels and renewable sources produce only about 15% of total energy Conversion technologies for use with many of the eight different primary sources of renewable energy are only just emerging as viable technologies While renewable energy sources will not run out and their use involves little or no release of carbon dioxide or ionising wastes they do have local environmental impacts of their own This book analyses the nature of environmental impacts from renewable sources A novel method of assessing impacts is explored based on a set of parameters centred on how diffuse or concentrated the energy flow is The approach that is developed will inform engineers designers policy makers and planners as well as researchers in the area **General and Applied Toxicology** Bryan Ballantyne,Timothy C. Marrs,Tore L. M. Syversen,2009

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Table of Contents Life Sciences Paper 2 November 2008 Memo

1. Understanding the eBook Life Sciences Paper 2 November 2008 Memo
 - The Rise of Digital Reading Life Sciences Paper 2 November 2008 Memo
 - Advantages of eBooks Over Traditional Books
2. Identifying Life Sciences Paper 2 November 2008 Memo
 - 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 Life Sciences Paper 2 November 2008 Memo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Life Sciences Paper 2 November 2008 Memo
 - Personalized Recommendations
 - Life Sciences Paper 2 November 2008 Memo User Reviews and Ratings
 - Life Sciences Paper 2 November 2008 Memo and Bestseller Lists

5. Accessing Life Sciences Paper 2 November 2008 Memo Free and Paid eBooks
 - Life Sciences Paper 2 November 2008 Memo Public Domain eBooks
 - Life Sciences Paper 2 November 2008 Memo eBook Subscription Services
 - Life Sciences Paper 2 November 2008 Memo Budget-Friendly Options
6. Navigating Life Sciences Paper 2 November 2008 Memo eBook Formats
 - ePub, PDF, MOBI, and More
 - Life Sciences Paper 2 November 2008 Memo Compatibility with Devices
 - Life Sciences Paper 2 November 2008 Memo Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Life Sciences Paper 2 November 2008 Memo
 - Highlighting and Note-Taking Life Sciences Paper 2 November 2008 Memo
 - Interactive Elements Life Sciences Paper 2 November 2008 Memo
8. Staying Engaged with Life Sciences Paper 2 November 2008 Memo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Life Sciences Paper 2 November 2008 Memo
9. Balancing eBooks and Physical Books Life Sciences Paper 2 November 2008 Memo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Life Sciences Paper 2 November 2008 Memo
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Life Sciences Paper 2 November 2008 Memo
 - Setting Reading Goals Life Sciences Paper 2 November 2008 Memo
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Life Sciences Paper 2 November 2008 Memo
 - Fact-Checking eBook Content of Life Sciences Paper 2 November 2008 Memo
 - 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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