

- 2.2 Study the diagram of four plant species below and answer the questions that follow.



- 2.2.1 What is this type of representation called? (1)
- 2.2.2 Which characteristic is found in the pine tree that is not found in the palm tree? (2)
- 2.2.3 During which period did the ancestor of the pine tree and the palm tree diverge (branched off)? (1)
- (4)

- 2.3 Study the sketches of plants below and answer the questions that follow.



- 2.3.1 Identify the plant groups under which plants A, B, C and D are classified. (4)
- 2.3.2 Identify the structure numbered 2. (1)
- 2.3.3 Plants B and C both produce seeds. Explain the importance of seeds for both these plants. (4)
- 2.3.4 Give a reason why plant A needs water for sexual reproduction. (2)
- (11)

- 2.4 Use your knowledge and compare the jelly fish, tapeworm and earthworm in a table regarding the following characteristics:
- 2.4.1 symmetry
- 2.4.2 coelom
- 2.4.3 blood system
- (10)

QUESTION 3

- 3.1 Read the passage below and answer the questions that follow.

Peat lands are special wetlands that play a very important role in ecology. A peat land, of approximately 5 000 years old, near Mafeking is almost destroyed because of excessive extraction of water from the nearby Molapo river. The water is extracted for human consumption.

Peat lands like the one near Mafeking is exceptional and play an important role in storing water as well as preventing climate changes.

Dr Phil-Louis Grundling said that carbon that is 'held' or 'stored' by peat lands combats climate change because it decreases the amount of carbon in the atmosphere.

Peat lands trap about one third of the world's carbon. Approximately 50% of wetlands worldwide are peat lands. However in South Africa about 10% of the wetlands are peat lands.

Grundling explained that peat lands can hold about 1 000 times its own mass in water. This replenishes the water table and is the source that keeps streams flowing. The 'sponge effect' of the peat also makes it possible to store water that is then released during dry seasons.

Dr Grundling said that it might be too late to restore the peat land near Mafeking but it might be possible to restore some parts of it if more water is supplied to this peat land.

The result of this destruction is depletion of the water table. The habitat of numerous fish and frog species that lived in this peat land was also destroyed.

From: *Beeld*, 21 September 2018.

- 3.1.1 Give TWO other reasons (not mentioned in the passage) that can lead to the destruction of wetlands. (2)
- 3.1.2 Discuss reasons from the passage regarding the importance of these specific wetlands for the environment. (4)
- 3.1.3 Suggest a way in which this peat land near Mafeking can be restored. (2)
- (8)

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Table of Contents Grade 1life Sciences Past Papers

1. Understanding the eBook Grade 1life Sciences Past Papers
 - The Rise of Digital Reading Grade 1life Sciences Past Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 1life Sciences Past Papers
 - 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 Grade 1life Sciences Past Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 1life Sciences Past Papers
 - Personalized Recommendations
 - Grade 1life Sciences Past Papers User Reviews and Ratings
 - Grade 1life Sciences Past Papers and Bestseller Lists

5. Accessing Grade 1life Sciences Past Papers Free and Paid eBooks
 - Grade 1life Sciences Past Papers Public Domain eBooks
 - Grade 1life Sciences Past Papers eBook Subscription Services
 - Grade 1life Sciences Past Papers Budget-Friendly Options
6. Navigating Grade 1life Sciences Past Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 1life Sciences Past Papers Compatibility with Devices
 - Grade 1life Sciences Past Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 1life Sciences Past Papers
 - Highlighting and Note-Taking Grade 1life Sciences Past Papers
 - Interactive Elements Grade 1life Sciences Past Papers
8. Staying Engaged with Grade 1life Sciences Past Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 1life Sciences Past Papers
9. Balancing eBooks and Physical Books Grade 1life Sciences Past Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 1life Sciences Past Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 1life Sciences Past Papers
 - Setting Reading Goals Grade 1life Sciences Past Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 1life Sciences Past Papers
 - Fact-Checking eBook Content of Grade 1life Sciences Past Papers
 - 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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