

- 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 protea that is not found in the pine tree? (2)
- 2.2.3 During which period did the ancestor of the protea and the pine 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 6 000 years old, near Mafikeng is almost destroyed because of excessive extraction of water from the nearby Molepo river. The water is extracted for human consumption.

Peat lands like the one near Mafikeng 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 Mafikeng 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*, 24 September 2016.

- 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 Mafikeng can be restored. (2)
- (8)

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Table of Contents Matric2014 Life Sciences Common Paper

1. Understanding the eBook Matric2014 Life Sciences Common Paper
 - The Rise of Digital Reading Matric2014 Life Sciences Common Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Matric2014 Life Sciences Common Paper
 - 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 Matric2014 Life Sciences Common Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Matric2014 Life Sciences Common Paper
 - Personalized Recommendations
 - Matric2014 Life Sciences Common Paper User Reviews and Ratings
 - Matric2014 Life Sciences Common Paper and Bestseller Lists

5. Accessing Matric2014 Life Sciences Common Paper Free and Paid eBooks
 - Matric2014 Life Sciences Common Paper Public Domain eBooks
 - Matric2014 Life Sciences Common Paper eBook Subscription Services
 - Matric2014 Life Sciences Common Paper Budget-Friendly Options
6. Navigating Matric2014 Life Sciences Common Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Matric2014 Life Sciences Common Paper Compatibility with Devices
 - Matric2014 Life Sciences Common Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Matric2014 Life Sciences Common Paper
 - Highlighting and Note-Taking Matric2014 Life Sciences Common Paper
 - Interactive Elements Matric2014 Life Sciences Common Paper
8. Staying Engaged with Matric2014 Life Sciences Common Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Matric2014 Life Sciences Common Paper
9. Balancing eBooks and Physical Books Matric2014 Life Sciences Common Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Matric2014 Life Sciences Common Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Matric2014 Life Sciences Common Paper
 - Setting Reading Goals Matric2014 Life Sciences Common Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Matric2014 Life Sciences Common Paper
 - Fact-Checking eBook Content of Matric2014 Life Sciences Common Paper
 - 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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