

- 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 olive tree? (2)
- 2.2.3 During which period did the ancestor of the olive 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 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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D Siedentop



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The book delves into Grade11 2014 Lifescience Paper1 November Exemplar. Grade11 2014 Lifescience Paper1 November Exemplar is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Grade11 2014 Lifescience Paper1 November Exemplar, encompassing both the fundamentals and more intricate discussions.

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these regions of growth are good for studying the cell cycle because at any given time you can find cells that are undergoing mitosis in order to examine cells in the tip of an onion root a thin slice of the root is placed onto a microscope slide and stained so the chromosomes will be visible the cells you will be looking at in this activity

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compare and contrast mitosis and meiosis both mitosis and meiosis are involved in making new cells both start with diploid 2 sets of chromosomes o interphase occurs before both duplicating chromosomes before division o both mitosis and meiosis go through prophase metaphase anaphase telophase meiosis goes through prophase twice i

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the cell cycle results in the formation of two genetically identical daughter cells from the division of a parent cell in this lab you will be observing plant cells onion in the various stages of mitosis and make time calculations based on the data you collect

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observing mitosis analysis and conclusion questions 1 mitosis is much the same in animal cells as in the plant cells you have examined what can you infer from this about the origins of mitosis a i can infer that the start of cell all came from one cell

and where that cell came from we do not know but it was the start from that cell it when through the process of binary fission
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mitosis introduction in this lab you will examine the dividing root tip cells of an onion you will examine the specimen to
identify the various phases of the cell cycle to see which phases cells spend more time in and you will answer related analysis
questions to further your understanding of the eukaryotic cell cycle pre lab

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sep 14 2021 the process of mitosis is only a short period of the lifespan of cells mitosis is traditionally divided into four
stages prophase metaphase anaphase and telophase the actual events of mitosis are not discreet but occur in a continuous
sequence separation of mitosis into four stages is merely convenient for our discussion and organization

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jul 25 2019 procedure 1 create a data table with the following headings across the top number of cells percentage of all
cells time min and the stages of mitosis down the side prophase metaphase anaphase telophase 2 carefully put the slide on
the microscope and focus it under low power 40x is preferred 3

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feb 23 2022 many cells will be in various stages of mitosis number of words 244 words aim to study the image of onion cells
under a microscope and identify actively dividing cells throughout mitosis during the cell cycle s phases materials and
methods refer to the practical activity handout dna observing mitosis results

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discuss the answers to the questions with a partner think pair share and then the class activity 2 observe the stages of
mitosis in onion root cells plant cells also use mitosis for growth maintenance and repair

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after completing this lab exercise you should be able to identify and describe the stages of the cell cycle mitosis and meiosis
recognizing the events that occur during each stage distinguish between mitosis and cytokinesis as they take place in animal
and plant cells

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the onion root is also a good place because this is the area where the plant is growing remember that when cells divide each
new cell needs an exact copy of the dna in the parent cell this is why mitosis is only visible in cells that are dividing like the

whitefish embryo and the onion root tip mitosis can take several hours to complete

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exercise 1 observing mitosis under the microscope examine prepared slides of both plant cells onion allium root tip and animal cells whitefish blastula under the microscope at 400x

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in general mitosis occurs through several stages that include prophase divided into prophase and prometaphase metaphase anaphase telophase because of the rapid rate at which onion root tips grow as a result of rapid cell division it s possible to observe and identify the different stages of mitosis

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feb 7 2017 view under a microscope and identify the stages of mitosis results calculations the percentage of cells in each stage of mitosis can be observed and noted down a mitotic index can also be formed number of cells containing visible chromosomes total number of cells in the field of view conclusion

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procedure review the images of onion root tip cells undergoing the different phases of mitosis shown in figure 10 figure 10

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