

- 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 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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Zhe Xu



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Multilingualism and Intercultural Communication H. Ekkehard Wolff, Pamela Maseko, Russell H Kaschula, Christine Anthonissen, Bassey E Antia, 2017-05-01 An in depth look at the changing sociolinguistic dynamics that have influenced South African society To date there has been no published textbook which takes into account changing sociolinguistic dynamics that have influenced South African society Multilingualism and Intercultural Communication breaks new ground in this arena The scope of this book ranges from macro sociolinguistic questions pertaining to language policies and their implementation or non implementation to micro sociolinguistic observations of actual language use in verbal interaction mainly in multilingual contexts of Higher Education HE There is a gradual move for the study of language and culture to be taught in the context of professional disciplines in which they would be used for example Journalism and African languages Education and African languages etc The book caters for this growing market Because of its multilingual nature it caters to English and Afrikaans language speakers as well as the Sotho and Nguni language groups _ the largest languages in South Africa and also increasingly used in the context of South African Higher Education It brings together various inter linked disciplines such as Sociolinguistics and Applied Language Studies Media Studies and Journalism History and Education Social and Natural Sciences Law Human Language Technology Music Intercultural Communication and Literary Studies The unique cross cutting disciplinary features of the book will make it a must have for twenty first century South African students and scholars and those interested in applied language issues *Current Index to Conference Papers in Life Sciences*, 1969

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web objective we quantified the range of motion rom required for eight upper extremity activities of daily living adls in healthy participants method fifteen right handed participants completed several bimanual and unilateral basic adls while joint kinematics were monitored using a motion capture system

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